

Research Article

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New and little known *Pyraloidea* of Turkey, with some faunistical notes (*Lepidoptera*)

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Abstract: New and little known *Pyraloidea* of Turkey, with some faunistical notes (*Lepidoptera*).
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This paper deals with the 151 *Pyraloid* species of 16 provinces (Ankara, Antalya, Bingöl, Bitlis, Hakkari, Hatay, İçel, Kars, Malatya, Muş, Siirt, Şanlıurfa, Van, Şırnak, Ardahan, Iğdır) of Turkey. Four species are new to the fauna of Turkey. A new subspecies, *Sitochroa verticalis* ssp. *albalis* (ssp.n.) is described from Van Province. A large number of illustrations of the male and female genitalia, tympanal organs, as well as the adults are given for the first time.

Key words: *Pyraloidea*, fauna, Turkey, genitalia, tympanal organ, new subspecies.

In the last years, the authors published various papers of the *Lepidoptera* fauna of Turkey, also checklists, early stages, descriptions of new taxa, etc. Among them, the following papers are related with the *Pyraloidea* of Turkey (Kemal & Koçak, 2013a-b, 2015a-c, 2016a, 2016b, 2017a-d; Kemal *et al.*, 2013; Koçak & Kemal, 2009, 2015a-b).

In the present paper, selected 151 species are evaluated. In the result, totally 75 species are related with 91 new records of 16 provinces of Turkey. This faunistic information may be

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summarized as follows; Antalya (2 new records), Bingöl (1 new record), Bitlis (7 new records), Hakkari (1 new record), Hatay (9 new records), İçel (12 new records), Kars (1 new record), Malatya (8 new records), Muş (4 new records), Siirt (19 new records), Şanlıurfa (1 new record), Van (9 new records), Şırnak (13 new records), Ardahan (2 new records), and Iğdır (2 new records). Among them, the following 4 species are new to the fauna of Turkey: *Ambia thyridialis* (Lederer, 1855), *Ancylosis syrtella* (Ragonot, 1887), *Euzophera alpherakyella* Ragonot, 1887, *Pyrausta porphyralis* (Denis & Schiffermüller, 1775). Taxonomically, a new subspecies, *Sitochroa verticalis* ssp. *albalis* (ssp.n.) is described from Van Province. Illustrations of tympanal organs of 22 species are presented here for the first time (Figs. 8-9, 12-14, 18-19, 21-22, 24-25, 29-32, 38-39, 43-44, 46-47, 49-50, 52, 54-55, 57-58, 65-66, 68-69, 71-72, 74-75, 77-78, 82-83, 93-94, 97-98, 101, 103). The male genitalia of 26 species are given (Figs. 2, 3, 6-7, 11, 17, 20, 23, 27, 37, 42, 45, 48, 51, 53, 56, 60, 63, 70, 73, 76, 79, 80, 90, 96, 100). The female genitalia of 5 species are illustrated (Figs. 15, 28, 64, 67, 102). Adults of 21 species are also presented here (Figs. 1, 4, 5, 10, 16, 26, 33, 34, 35-36, 40-41, 59, 61-62, 81, 84, 85, 86, 87, 88-89, 91, 95, 99).

All the photographs and the preparations belong to the first author. The materials were collected and identified by the authors (in coll. Cesa)².



Fig. 1 – *Metasia suppandalis*. A male at rest. Van Province, Başkale, Ziyaniş 2400m, 10 7 2015. M. Kemal (Cesa)

² <http://grbio.org/cool/caaz-xyfc>

Annotated list of the species

Totally 151 species are listed below in alphabetical order. Distributional information in Turkey are given as codes to each taxa.³ To the most of the species label information of the material preserved in the collection of the Cesa are added.

1. *Achyra nudalis* (Hübner, 1796)

Range (in code): 01 16 23 27 31 33 46 76 16A 31A 31H 31K 31Ka 31Ka3 31Ka7 31M 76A 76Aa 76B 76Ba 76Bb.

Material studied: Hatay Province, Samandağ, Meydan Karabucak 35m (31Ka3), 9 5 2015 1♂ M. Kemal & A. Koçak leg.; Karabucak 35m (31Ka3), 8 9 2015 1♂. O. Sertel leg.

2. *Acritonia comeella* Amsel, 1954 (Fig.2)

Range (in code): 13 65 73 13A 13Ab 13Ax 13F 13F38 65D 65Df 73A 73Ad 73Ad2. Material studied: Van Province, Çatak, Saklıvadi 2025m (65Df) 25 7 2016 1♂. M. Kemal & A. Koçak leg. GP2210♂, GP2239♂. (Kemal & Koçak, 2015c, 2017b).

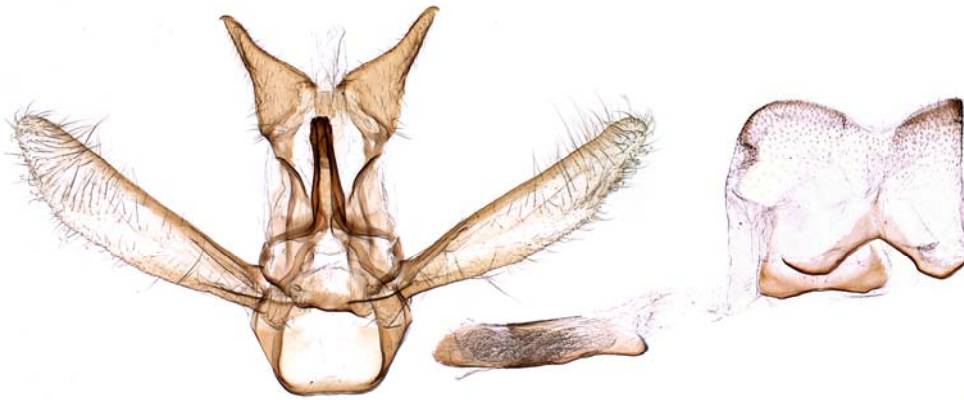


Fig. 2 - *Acritonia comeella*. Male genitalia, GP2239. Bitlis Province, Adilcevaz, Süphan Mt. Aygır 1960m. M. Kemal (Cesa)

3. *Acrobasis advenella* (Zincken, 1818) (Fig.3)

Range (in code): 05 56 65 56F 65N 65Np 65Nm Prep. no: GP2225♂.

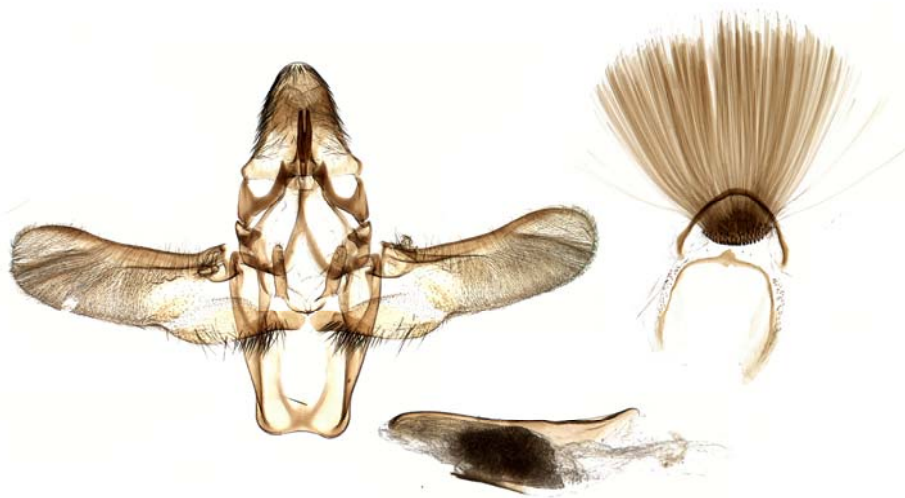


Fig. 3 – *Acrobasis advenella*. Male genitalia and coremata. GP2225. Van Province, Tuşba, Ağartı 1780m (65Np). M. Kemal (Cesa)

³ The codelist used in the Cesa publications can be freely downloaded from the address: <http://www.members.tripod.com/entcesa/Code.pdf>

4. *Acrobasis glaucella* Staudinger, 1859

Range (in code): 01 05 06 13 31 35 42 44 46 56 65 71 05A 13F 31M 42B 44L 44Lc 56F 56F1 65D 65Du 65Dv 65Dt . Material studied: Siirt Province, Şirvan Akgeçit 1210m (56F1) 3 7 2013, 1♂ M. Kemal & A.Koçak leg. New to Siirt Province!

5. *Acrobasis obtusella* (Hübner, 1796)

Range (in code): 01K 13F 56F 56Fb (Koçak & Kemal, 2015b: 18, fig.1).

6. *Acrobasis tumidana* ([Denis & Schiffermüller], 1775)

Range (in code): 12 13 16 42 46 56 65 80 12E 12Ed 13A 13Ab 13Ax 13F 16A 56F 56F1 65A 65Ai . Material studied: Siirt Province, Şirvan Akgeçit 1210m (56F1) 3 7 2013, 1♂ M. Kemal & A.Koçak leg.

7. *Aeglotis argentalis* (Christoph, 1887) (Fig. 4)

Range (in code): 30 65 30D 30Dx 65D 65Dt. Material Studied: Van Province, Çatak Dalbastı 3km S 1320m (65Dt), 19 8 2004 1♂. M. Kemal & A.Koçak leg. This species has been recorded by the authors from Hakkari Province (Yüksekova, Yeşiltaş 1500m) and Van Province (Çatak, Dalbastı) so far. A nocturnal species flying in August.



Figs. 4, 5 - *Aeglotis argentalis* (Chr.) Underside of male from Van Province, Çatak, Dalbastı, M. Kemal 2004 (left); *Ambia thyridialis*, underside of male. Siirt Province, Şirvan Nergisli (56Fv) 630m 30 5 2013 (right). M. Kemal (Cesa)

8. *Aglossa arcuatalis* Zerny, 1914

Range (in code): 01 07 07B 06Bb 33 33A 33Ad. Material studied: Antalya Province, Alanya Kargıcak 100m (07Bb), 18 8 1985, 1♀. A.Koçak leg.; İçel Province, Anamur, Pınarlar 475m (33Ad) 19 8 2015 5♂. M. Kemal & A.Koçak leg. New to Antalya and İçel Provinces!

9. *Agriphila poliella* (Treitschke, 1832) (Figs. 6- 9)

Range (in code): 01 06 51 65 71 06R 06Rl 51D 51Db 65D 65Df. Material studied: Ankara Province, Kızılcahamam Kargasekmez 1000m (06Rl), 1984, 1♂. A. Koçak leg. (GP524) (**Fig. 6**); Van Province Çatak Saklıvadi 2030m (65Df) 1 9 2016, 1♂ (GP2590) (**Figs. 7-9**). M. Kemal & A.Koçak leg. New to Van Province!



Fig. 6 - *Agriphila poliella*. Male genitalia (GP524) from Ankara Province, Kızılcahamam Kargasekmez, A.Koçak, 1984.

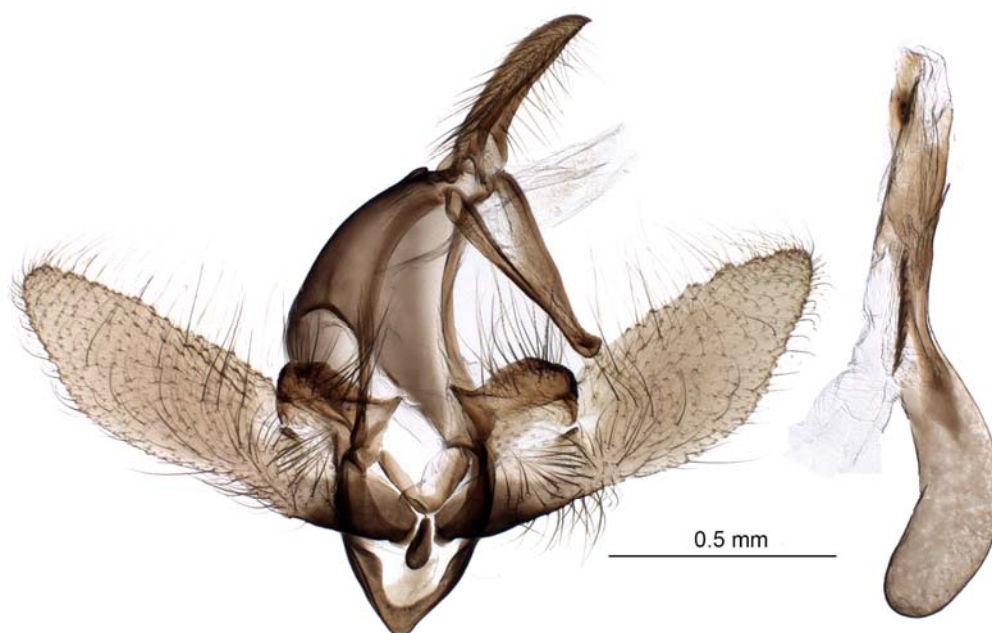


Fig. 7 - *Agriphila poliella*. Male genitalia, GP2590. Van Province, Çatak, Saklıvadi 2030m (65Df). M. Kemal (Cesa)



Figs. 8, 9 - *Agriphila poliella*. Male tympanal organ, GP2590. Before preparation (left), after preparation (right). M. Kemal (Cesa)

10. *Ambia thyridialis* (Lederer, 1855) (Fig. 5)

Range (in code): 56 56F 56Fv. Material studied: Siirt Province, Şirvan, Nergisli 630m (56Fv) 30 5 2013, 1♂. M. Kemal & A. Koçak leg. New to Turkey and Siirt Province!

11. *Anania (Opsibotys) fuscalis* ([Denis & Schiffermüller], 1775)

Range (in code): 53 60 75 76 53B 75F 75Fa 76D 76Dd. Material studied: Iğdır Province, Gaziler 1820m (76Dd) 30 5 2012, 1♀. M. Kemal & A. Koçak leg. Prep. no: GP973♂. New to Iğdır Province!

12. *Anania verbascata* (Fabricius, 1787)

Range (in code): 01 05 13 16 31 46 80 01G 01K 05A 13F 16A 31K 31Ka 31M 80B 80Bc. Material studied: Hatay Province Samandağ Meydan 20m (31Ka) 13 4 2012, 1♀. M. Kemal & A. Koçak leg.

13. *Ancylois cinnamomella* (Duponchel, 1836)

Range (in code): 01 03 05 06 09 13 14 16 21 26 31 34 42 46 47 65 71 76 05A 13F 13F01 13F11 13F35 13F41 16A 65A 65Am 65Am4 65D 65Dg 65Fp 65Fz 76C. Material Studied: Van Province: Gevaş Artos Mt. 1980m (65Fp) 15 7 2012, 1♂ (nocturnal). M. Kemal & A. Koçak leg. GP2460♂ GP2502♂

14. *Ancylois syrtella* (Ragonot, 1887) (Figs. 10-14)

Range (in code): 76 76A 76Aa GP2467♂. Material studied: Iğdır Province, Aralık Ephedretum 840m (76Aa) 21 4 2012, 1♂. M. Kemal & A. Koçak leg. New to Turkey and Iğdır Province!



Fig. 10 – *Ancylois syrtella* (upperside of male), GP2467. Turkey, Iğdır Prov., Aralık 21 4 2012, M. Kemal (Cesa)



Figs. 11, 12 – *Ancylois syrtella*. Male genitalia and coremata (above), abdominal skin and tympanal organ (below) GP2467. Turkey, Iğdır Province, Aralık 21 4 2012, M. Kemal (Cesa)



Figs. 13, 14 – *Ancylosis syrtella*. Male tympanal organ. GP2467. Before preparation (left), after preparation (right), M.Kemal (Cesa)

15. *Angustalius malacellus* (Duponchel,1836)

Range (in code): 01 05 07 31 33 34 44 55 56 80 05A 31A 31G 31K 31Ka 31Ka3 44O 44Oc 55E 56F 56F1.

Material studied: Hatay Province, Samandağ Meydan Karabucak 35m (31Ka3) 9-10 4 2012, 5♂. M. Kemal & A.Koçak leg.

16. *Anthophilopsis baphialis* (Staudinger,1870)

Range (in code): 01 06 21 31 33 35 42 46 56 63 65 76 80 01K 06R 21L 31A 56F 56Fé 63D 63Dc 63Dd 65D

65Du 76B 76Ba. Material studied: Şanlıurfa Province, Ceylanpınar 1. bridge 375m (63Dd) 27 5 2008, 3♀. M. Kemal & A.Koçak leg. New to Şanlıurfa Province!

17. *Antigastra catalaunalis* (Duponchel,1833)

Range (in code): 01 07 13 16 31 46 80 07B 07Bb 13F 16A 31A 31K 31Ka 46G 46Gf. Material studied:

Antalya Province, Alanya Kargıcak 100m (07Bb), 18 8 1985, 1♂ 2♀. A.Koçak leg. New to Antalya Province!

18. *Apomyelois ceratoniae* (Zeller,1839)

Range (in code): 01 17 31 31A 31K 31Ka 31Ka7. Material studied: Hatay Province, Samandağ,

Meydan Gözlüce 425m (31Ka7) 10 5 2015 1♂. M.Kemal & A.Koçak leg. New to Hatay Province!

19. *Aporodes floralis* (Hübner,[1809])

Range (in code): 01 05 06 13 16 21 23 31 33 42 44 46 56 58 61 65 76 01K 05A 13F 16A 21N 21Nb 31A 31K 31Ka

31Ka3 31M 42B 46H 46Hc 56F 65B 65Bo 65Bx 65D 65Dv 76A 76Ac 76B 76Bb 76C

20. *Arimania komaroffi* (Ragonot,1888)

Range (in code): 01 46 47 56 73 01K 47D 56F 56Fb 73A 73Ad 73Ad2 73C. Material studied: Siirt Prov.,

Şirvan Maden crossing 960m (56Fb) 31 5 2013 1♂, 29 6 2013 4♂♀. Şırnak Province, Beytüşşebap, Öküz mağarası 1250m (73Ad2) 17 8 2013, 5♂♀. M. Kemal & A. Koçak leg. New to Siirt and Şırnak Provinces!

21. *Arsissa ramosella* (Herrich-Schäffer,[1855])

Range (in code): 05 06 13 42 45 46 47 56 58 65 70 05A 06Y 13F 13F6 56F 56Fm 56Fs 56Fs1 65A 65Am 65Am1

65D 65Df 65Drd 65Dv 65Dh 65Dt 65Du 65F 65Fe 65Fp 65Fz 65N 65Np2 65Nm 70C 70Ce. Material studied: Siirt Province, Şirvan Maden Pass 1360m (56Fm) 1 7 2013, 1♂. M. Kemal & A.Koçak leg.; Van Province, Tuşba Ağartı 1950m (65Np2) 19 6 2014 1♂, 27 6 2014 4♂ M. Kemal & A.Koçak leg. (Koçak & Kemal, 2015b: 18, fig.2).

22. *Asalebria (Exophora) exasperata* (Staudinger, 1879)

Range (in code): 01 05 06 08 13 21 25 30 32 38 42 46 47 58 65 76 05A 06R 13F 13F6 30D 30Dt 42B 65A 65Ac 65Ac3 65At 65At5 65D 65Df 65F 65Fp 65Fz 76C. Material Studied: Van Province: Gevaş Artos Mt. 1980m (65Fp) 15 7 2012, 1♂ (nocturnal). M. Kemal & A.Koçak leg.

23. *Asalebria (Exophora) florella* (Mann, 1862)

Range (in code): 06 09 13 16 31 42 46 65 13A 13Ab 13Ax 16A 31M 65D 65Dv 65F 65Fp 65Fz 65N 65Nc 65Nc4. Material studied: Bitlis Province, Adilcevaz Süphan Mt Aygır 1960m (13Ab) 15 7 2013, 1♂. M. Kemal & A.Koçak leg.; Van Province: Gevaş Artos Mt. 1980m (65Fp) 15 7 2012, 2♂ (nocturnal). M. Kemal & A.Koçak leg.

24. *Asalebria (s.str.) geminella* (Eversmann, 1844)

Range (in code): 13 30 65 13F 30B 30Bc1 30Bx 65A 65Ai 65Am 65Am1 65D 65Dl 65Dlc. Material studied: Van Province, Bahçesaray, Paşaköy 1600m (65Ai), 25 6 2016 2♂. M. Kemal & A. Koçak leg.

25. *Bradyrhoa (Kasikoparania) mesobaphella* Ragonot, 1888

Range (in code): 65 76 65A 65Ab 65Aba 65Ac 65Ac3 76C GP2499♂ GP2500♀ (Kemal & Koçak, 2017a).

26. *Bradyrhoa (s.str.) gilveolella* (Treitschke, 1833)

Range (in code): 01 05 06 13 16 21 22 23 29 30 31 44 51 38 42 44 46 51 56 58 65 71 77 05A 13A 13Ab 13Ac 13Ag 13Ax 13F 13F6 13F01 13F11 13F38 13F41 16A 21N 21Nb 30B 30Bc1 30Bx 31M 44E 44Eh 44I 44Ic 44L 44Lc 56F 56F1 65A 65Ac 65Ac3 65Am 65Am4 65D 65Df 65Dh 65F 65Fp 65Fz 65N 65Np2 65Np5 65Nr2 65Nm. Material studied: Van Province: Gevaş Artos Mt. 1980m (65Fp) 15 7 2012, 1♀ (nocturnal). M. Kemal & A.Koçak leg.; Tuşba: Ağartı 2030m (65Nr2) 1 7 2014 1♂ M.Kemal & A.Koçak leg.; Malatya Province, Kale Kumluyazı E 860m (44Ic), 19 9 2014, 2♂. M.Kemal & A.Koçak leg. GP2498♂ (Koçak & Kemal, 2015b: 19, fig.3).

27. *Bradyrhoa (s.str.) imperialella* (Ragonot, 1887)

Range (in code): 65 76 65A 65Am 65Am4 65D 65Df 65Dv 76C Prep. no: GP2388♂ (Kemal & Koçak, 2017b).

28. *Catoptria falsella* ([Denis & Schiffermüller], 1775) (Fig.15)

Range (in code): 05 06 13 14 65 05A 13F 65F 65Fp 65Fz 65L Prep. no: GP2338♀

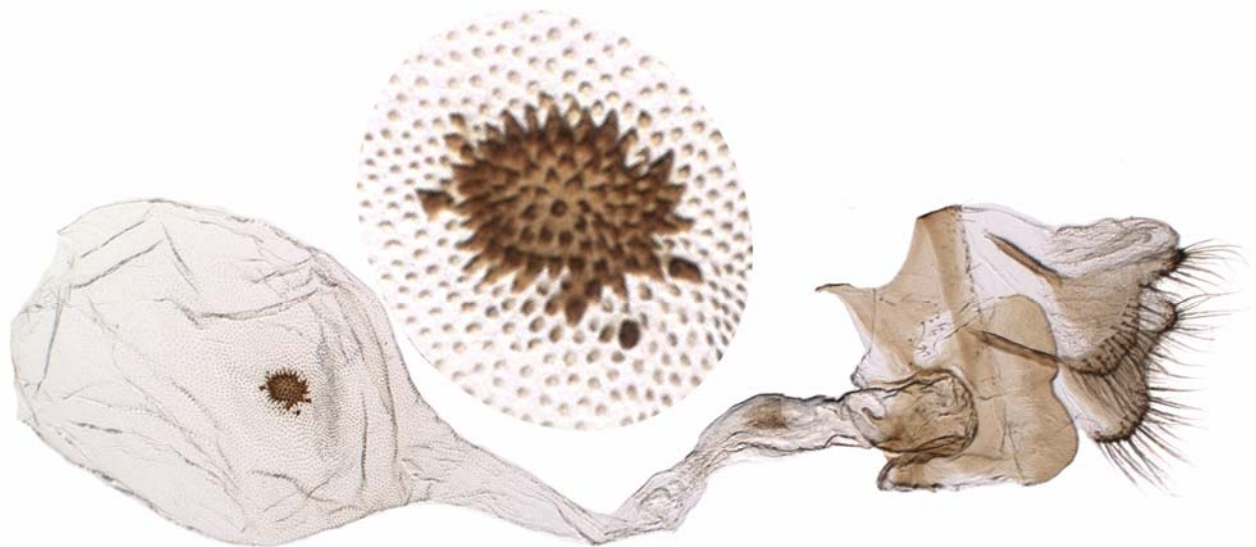


Fig. 15 - *Catoptria falsella*, female genitalia with enlarged signum. GP2338♀. Van Province, Edremit 1700m (65Lb). M. Kemal (Cesa).

29. *Catoptria hilarella* (Caradja,1925)

Range (in code): 46 65 46L 65A 65Ab 65Aba Prep. no: GP2367♂. Material studied: Van Province, Bahçesaray, Krapet Pass 2820m (65Aba) 6 8 2016 20♂♂. M. Kemal & A.Koçak leg. (Kemal & Koçak, 2017a).

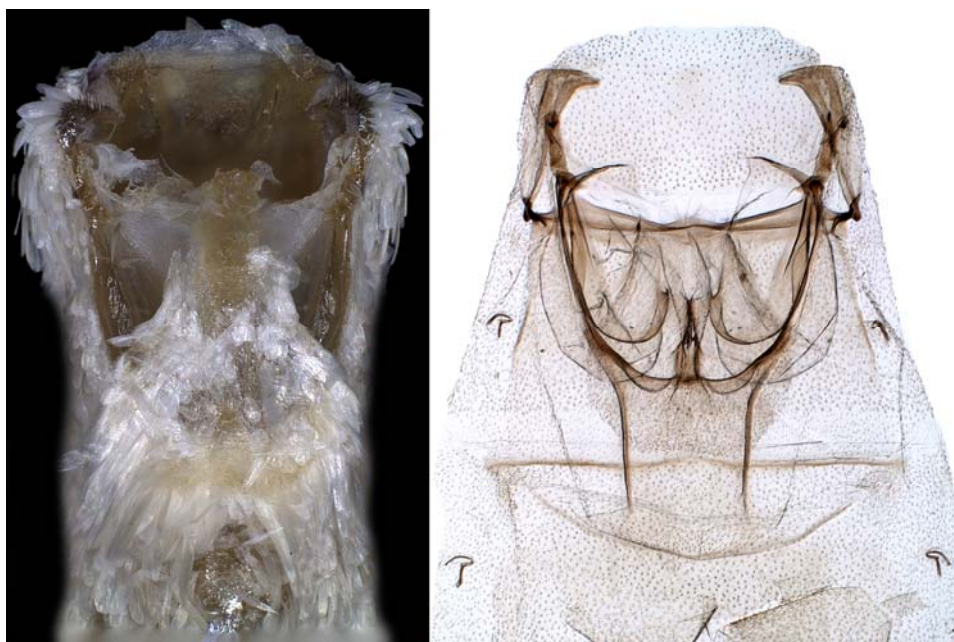
30. *Chilo partellus* (Swinhoe,1885) (Figs.16-19)

Range (in code): 01 31 80 31K 31Ka 31Ka3 31H. Material studied: Hatay Province, Samandağ Meydan Karabucak 35m (31Ka3), 2 5 2015, 1♂ M.Kemal & A.Koçak leg. GP2589♂ (Bleszynski, 1965).

The species is widely distributed in Africa to tropical Asia. This species is reported recently from Adana, Hatay, Osmaniye (Bayram & Tonga, 2016) and Reyhanlı [31H] (Can Cengiz et al., 2016). Here the male genitalia and the tympanal organ are illustrated from Turkey for the first time.



Figs. 16, 17 – *Chilo partellus*. Upperside of male. GP2589. (left). Male genitalia (right). South Turkey, Hatay Prov., Samandağ, Meydan. M. Kemal (Cesa)



Figs. 18, 19 – *Chilo partellus*. Male tympanal organ. GP2589. Before preparation (left), after preparation (right). M. Kemal (Cesa)

31. *Chrysocrambus craterellus* (Scopoli,1763)

Range (in code): 01 05 06 10 13 14 16 22 36 37 38 39 40 46 48 50 58 65 69 71 76 05A 06R 06Rd 10K 10Ka 13G 13Gg 16A 65A 65An 65At 65Au 65B 65Bn 65Bn1 65D 65Df 65Dg 65Dl 65Dlc 65Fz 65N 65Nc 65Np1 65Np2 65Nm. Material studied: Van Province Tuşba Ağartı 1860m (65Np1), 21 5 2014, 2♂, Ağartı 1835m (65Np6) 30 5 2014 2♂, Ağartı 1950m (65Np2) 25 5 2014 2♂. M. Kemal & A.Koçak leg.

32. *Chrysocrambus linetellus* (Fabricius, 1781)

Range (in code): 01 04 06 13 33 42 44 50 53 58 65 76 80 06R 13A 13Ab 13Ax 13B 13Bd 13G 13Ge1 13Gf 13F 13F6 44L 44Lc 56F 56F1 56Fs1 65A 65Ai 65Au 65B 65Bo 65Bx 65D 65K 65Kl 65N 65Np2 65Nm 76C. Material studied: Van Province Tuşba Ağartı 1950m (65Np2), 25 5 2014 1♂; Siirt Province Şirvan: Akgeçit 1210m (56F1) 3 7 2013, 1♂, Nallıkaya Dikilitaş 1940m (56Fs1) 30 6 2013, 1♂ M. Kemal & A.Koçak leg. New to Siirt Province!

33. *Crambus pascuellus* (Linnaeus, 1758)

Range (in code): 01 30 42 53 65 76 80 42B 65B 65Bo 65Bx 65F 65Fp 65Fz 76C. Material studied: Van Province Başkale Zıyanis 2500m (65Bo) 9 7 2015 2♂ (diurnal). M. Kemal & A.Koçak leg.

34. *Cybalomia pentadalis* (Lederer, 1855)

Range (in code): 01 07 08 31 33 45 46 56 76 07B 07Bb 08H 08Ha 31H 31M 33A 33Ac 56F 76C. Material studied: İçel Province Anamur Taşocağı 210m (33Ac) 19 8 2015, 1♀. M.Kemal & A.Koçak leg. New to İçel Province!

35. *Cynaeda (Noctuelia) superba* (Freyer, [1844])

Range (in code): 01 05 06 12 13 21 25 38 42 44 46 58 65 70 71 01H 05A 06R 06Rd 12A 12Ab 13F 13G 13Gç 13Gw 13Gü 13Gs 25A 44A 44Ab 65F 65Fb 65Fç 65Fp 65Fz 65K 65Kz 65Kg 65N 65Np 65Nr4 65Nm 70C 70Ce. Material studied: Bingöl Province, Bingöl, Upper Kuruca Pass 2000m (12Ab), 28 6 2009, diurnal 1♂. M. Kemal & A.Koçak leg.; Malatya Province, Akçadağ Gürkaynak 1540m, openings of Quercus woodland (44Ab), 8 6 2013, diurnal 2♂. M. Kemal & A.Koçak leg. New to Bingöl Province!

36. *Cynaeda (Usgentia) vespertalis* (Herrich-Schäffer, [1855])

Range (in code): 01 05 13 31 33 42 45 46 55 65 72 80 01H 05A 13G 13Gç 65A 65Ai 65D 65Dl 65Dlc 65Dr 65Drb 65F 65Fç 65Fz 72E 72Eh 80E 80Ea. Material studied: Bitlis Province Tatvan 2km SE 1700m (13Gç) 15 6 2007 1♂. M. Kemal & A.Koçak leg.

37. *Cynaeda (s.str.) gigantea* (Staudinger, 1879)

Range (in code): 05 06 08 13 14 21 23 38 42 44 46 50 56 58 65 76 05A 06K 06Kb 06R 06Rk 13A 13Ab 13Ax 13F 13F6 14B 14Bb 21L 21Lc 38H 38Hc 44E 44Eh 50G 56F 56F1 56Fb 58G 65A 65Ac 65Ac3 65Am 65Am1 65D 65Df 65Dt 65Du 65Fz 65N 65Np1 65Nr4 65Nm 76C. (Koçak & Kemal, 2015b: 19, fig. 4). Material Studied: Van Province, Tuşba, Ağartı 2030m (65Nr2) 1 7 2014 1♂ M.Kemal & A.Koçak leg.; Bitlis Province Adilcevaz Süphan Mt Aygır 1960m (13Ab) 15 7 2015 2♀ M.Kemal & A.Koçak leg.

38. *Dioryctria mendacella* (Staudinger, 1859)

Range (in code): 01 07 33 80 33A 33Ac. Material studied: İçel Province, Anamur Taşocağı 210m (33Ac) 19 8 2015. 1♀ M. Kemal & A. Koçak leg. New to İçel Province!

39. *Dolicharthria bruguieralis* (Duponchel, 1833)

Range (in code): 01 05 06 07 13 16 21 31 32 33 44 46 65 70 73 05A 07B 13F 16A 21N 21Nh 31K 31Ka 31Ka5 31M 33A 33Ad 44E 44Eh 44I 44Lc 44L 44Lc 65A 65Am 65Am1 65D 65Dlc 65Dh 65Du 65Dv 70C 70Ce 73A 73Ac2 73D 73Db. Prep. no: GP760♂. Material studied: Şırnak Province, Beytüşşebap Dule 1210m (73Ac2) 14 8 2013 1♂. M. Kemal & A.Koçak leg.; Malatya Province, Kale Kumluyazı E 860m (44Lc), 19 9 2014, 6♂. M.Kemal & A.Koçak leg.; İçel Province Anamur Pınarlar 425m (33Ad) 19 8 2015, 2♀. M.Kemal & A.Koçak leg. New to Şırnak and İçel Provinces!

40. *Dolicharthria intervacatalis* (Christoph, 1877)

Range (in code): 13 56 13F 13F35 56F 56F1 56Fm 56Fs. Material studied: Siirt Province Şirvan: Nallıkaya 1740m (56Fs) 30 6 2013 1♂, Akgeçit 1210m (56F1) Querceto-Astragaletum 3 7 2013 1♂, Maden Pass 1360m (56Fm) 1 7 2013 1♂. M.Kemal & A.Koçak leg. New to Siirt Province!

41. *Dolicharthria punctalis* ([Denis & Schiffermüller], 1775)

Range (in code): 01 05 06 14 16 31 33 36 39 42 46 56 61 65 71 05A 16A 31M 33A 33Ac 36D 36Db 56F 61K 61Ka 65D 65Df 65Fz 65N 65Nc 65Nc4 65Nf. Material studied: İçel Province Anamur Taşocağı 210m. (33Ac) 19 8 2015, 1♂. M. Kemal & A. Koçak leg.

42. *Dolicharthria stigmosalis* (Herrich-Schäffer,[1848])

Range (in code): 01 05 06 16 17 31 33 35 46 49 65 80 05A 16A 17C 31K 31Ka 31Ka5 31Ka7 33A 33Ac 49E 49Ea 65N 65Np 65Nm. Material studied: Hatay Province, Samandağ, Meydan Gözlüce 210m (31Ka5) 10-11 5 2015 7♂, Karabucak (31Ka3) 9 5 2015 1♂. M.Kemal & A.Koçak leg.; Van Province, Tuşba Ağartı 1740m (65Np) 3 6 2014 1♂ M. Kemal & A.Koçak leg. New to Hatay Province!

43. *Ecpyrrhorhoe diffusalis* (Guenée,1854)

Range (in code): 01 05 06 13 16 21 31 38 42 44 46 47 56 60 65 71 73 05A 06R 13A 13Ab 13Ax 13F 13F6 16A 21L 21Lc 31K 31Ka 31Ka3 31M 44I 44Ic 44L 44Lc 46G 46Gf 56F 56F1 65A 65Am 65Am1 65Am2 65Am4 65Ab 65Aba 65D 65Df 65Dg 65Dv 65Dt 65Ds 65F 65Fç 65Fp 65Fz 65N 65Np6 65Nm 73A 73Ad 73Ad2. Material studied: Şırnak Province, Beytüşşebap: Komato 1065m (73Ak) 3 5 2013 1♂, Dule, Öküz mağarası 1250m (73Ad2) 17 8 2013, 1♀. M. Kemal & A.Koçak leg.; Siirt Province Şirvan Akgeçit 1210m (56F1) 3 7 2013 1♂. M.Kemal & A.Koçak leg.; Malatya Province, Kale Kumluyazı E 860m (44Ic), 19 9 2014, 1♂. M.Kemal & A.Koçak leg.; Hatay Province, Samandağ, Meydan Karabucak 35m (31Ka3) 9 5 2015 1♂. M.Kemal & A.Koçak leg.; Van Province, Bahçesaray Upper Mukus valley (65Am2) 10 5 2016, 1♂. M.Kemal & A.Koçak leg. Prep. no: GP766♂ GP778♀. New to Siirt and Şırnak Provinces!

44. *Endotricha flammealis* ([Denis & Schiffermüller],1775)

Range (in code): 01 05 06 07 08 10 12 13 16 30 31 33 34 42 44 46 48 56 58 60 65 71 80 05A 06R 06Rb 07B 07Bb 08H 08Hc 10K 10Ka 12E 12Eb 12Ec 12Ed 13G 13Gf 13F 16A 30D 30Dx 31K 31Ka 31Ka3 31M 42B 44I 44Ic 48D 56F 56Fa 56F1 60G 65A 65Ai 65D 65Dv 65Dt 65Du 65Dv 65F 65Fg. Material studied: Antalya Province, Alanya Kargıcak 100m (07Bb), 1 9 1985, 1♂. A.Koçak leg. Malatya Province, Kale Kumluyazı E 860m (44Ic), 19 9 2014, 2♂. M.Kemal & A.Koçak leg.

45. *Epactoctena octogenalis* (Lederer,1863)

Range (in code): 13 21 23 31 33 44 46 47 56 63 65 73 13G 13Gg 13F 21N 21Nb 31A 31M 33O 47D 56F 56Fb 56Fm 63D 63Dd 65N 65Nf 65Np 65Nm 73A 73Aç 73Aç2. Material studied: Siirt Province, Şirvan Maden Pass 1360m (56Fm) 1 7 2013, 1♂. M. Kemal & A. Koçak leg.; Şırnak Province, Beytüşşebap Dule 1210m (73Aç2) 14 8 2013 1♂. M. Kemal & A.Koçak leg.; (Koçak & Kemal, 2015b: 20, fig.5). New to Şırnak Province!

46. *Epascestria pustulalis* (Hübner,[1823])

Range (in code): 01 05 06 13 31 33 35 42 44 46 56 63 65 75 80 05A 06R 13F 31M 44L 44Lc 56F 56Fé 63D 63Dc 65F 65Fo 65Fp 65Fz 65N 65Nc 75F 75Fb 80B 80Bc. Material studied: Van Province, Tuşba YYU Kampus 1650m (65Nc) 4 8 2004, M. Doğruöz leg.; Van Province: Gevaş Artos Mt. 1980m (65Fp) 15 7 2012, 1♂ (nocturnal). M. Kemal & A.Koçak leg.; Malatya Province, Beydağı NP 1195m (44Lc) 20 6 2015, 2♂. M.Kemal & A.Koçak leg. New to Malatya Province!

47. *Epiepischnia pseudolydella* Amsel,1954 (Figs.20-22)

Range (in code): 06 13 46 65 71 06R 13A 13Ab 13Ax 13F 13F6 65A 65Am 65Am3 65At 65At5 65D 65F 65Fp 65Fz Prep. no: GP2308♂ Material studied: Bitlis Province, Adilcevaz Süphan Mt Aygır 1960-1990m (13Ab) 10-11 6 2015, 2♂. M. Kemal & A.Koçak leg.; Van Province, Bahçesaray Upper Mukus valley 1850m (65Am3) 24 6 2016 1♀. M. Kemal & A.Koçak leg. GP2308♂.

48. *Epimetasia eoa* (Meyrick,1936)

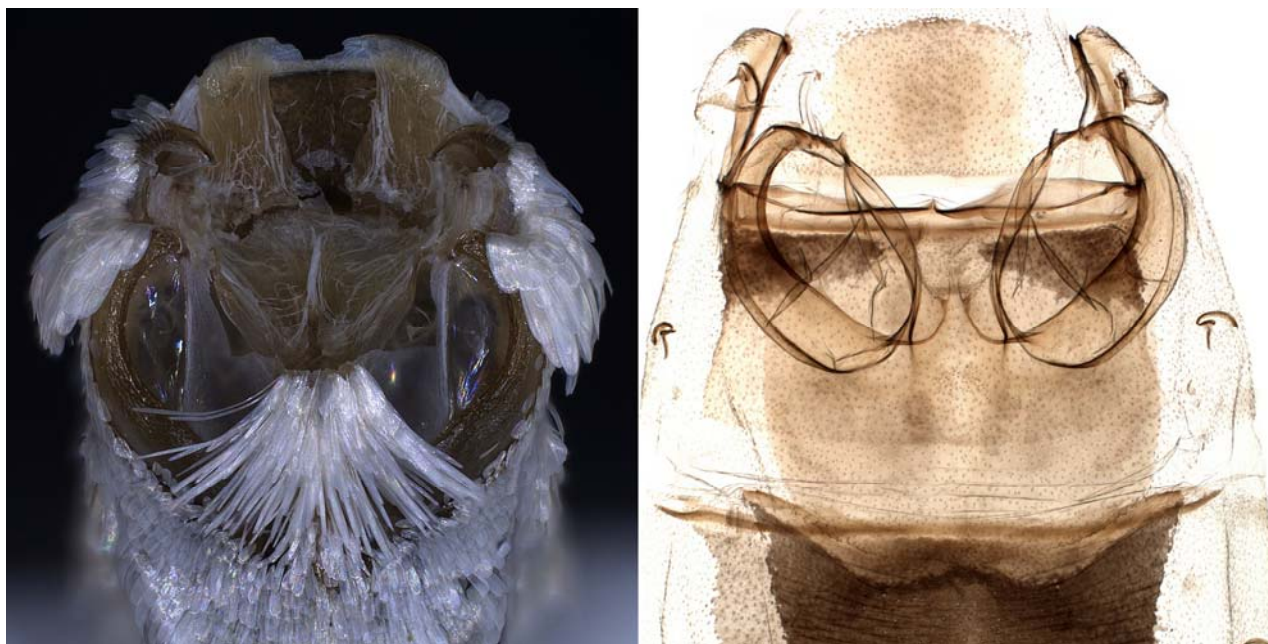
Range (in code): 30 56 30B 30Bc 56F 56Fb 56Fm. Material studied: Hakkari Province, Kırıkdağ SE 1580m (30Bc1), 4 7 2011, nocturnal, 1♂. M. Kemal & A. Koçak leg. This species was previously recorded in Siirt Province (Kemal, Seven, Koçak, 2013). New to Hakkari Province!

49. *Epischnia illotella* Zeller,1839 (Figs. 23-25)

Range (in code): 16 31 42 44 65 76 16A 31M 44L 44Lc 65A 65Ai 76A 76Aa. GP2334♂ New to Malatya Province!



Fig. 20 - *Epiepischnia pseudolydella*. Male genitalia and coremata. GP2308♂. Bitlis Province, Adilcevaz Süphan Mt. Aygır 1960m. M. Kemal (Cesa)



Figs. 21, 22 - *Epiepischnia pseudolydella*. Male tympanal organ. GP2308♂. Before preparation (left), after preparation (right). M. Kemal (Cesa)



Fig. 23 - *Epischnia illotella*. Male genitalia and coremata. GP2334. Malatya Province, Beydağı NP 1190m. M. Kemal (Cesa)



Figs. 24, 25 - *Epischnia illotella*. Male tympanal organ. GP2334. Before preparation (left), after preparation (right). M. Kemal (Cesa)

50. *Epischnia prodromella* (Hübner,[1799])

Range (in code): 01 05 06 08 13 16 21 31 32 34 42 44 46 56 58 65 05A 08H 08Ha 13F 16A 21L 21Lc 31M 44I 44Ic 65A 65Am 65Am1 65Am4 65D 65N 65Nc 65Nc4 65Nr7 65Nm. Material studied: Siirt Province, Şirvan Akgeçit 1210m (56F1) , 3 7 2013, 1♂ M.Kemal & A.Koçak leg.; Van Province, Tuşba, Ağartı 1825m (65Nr7) 17 5 2014, 1♂ M.Kemal & A.Koçak leg. New to Siirt Province!

51. *Etiella zinckenella* (Treitschke,1832)

Range (in code): 01 05 06 09 13 16 17 31 32 39 44 46 58 65 71 76 80 05A 09K 09Ka 13A 13Ab 13Ax 13F 16A 31M 33A 33Ac 44L 44Lc 65N 65Np 65Nm 76A 76Ac 76B 76Bb. Material studied: Bitlis Province, Adilcevaz Süphan Mt Aygır 1970m (13Ab) 14 7 2015, 1♂ M.Kemal & A.Koçak leg.

52. *Euchromius bellus* (Hübner, 1796)

Range (in code): 01 05 06 12 13 16 17 21 26 29 31 33 35 39 42 44 46 59 65 71 76 80 05A 12A 12Ab 13F 16A 16E 31O 31M 44L 44Lc 65A 65Am 65Am3 65D 65Df 65Dv 76C Prep. no: GP1096♀ GP2405♂. Material studied: Malatya Province, Beydağı NP 1190m (44Lc) 19-20 6 2015 2♂. M. Kemal & A.Koçak leg.; Van Province Bahçesaray Upper Mukus valley 1840m (65Am4) 5 8 2016 1♂ (nocturnal). M.Kemal & A.Koçak leg. New to Malatya Province!

53. *Euchromius ocellus* (Haworth, [1811])

Range (in code): 01 05 07 13 16 31 32 34 42 48 56 65 71 76 05A 13F 16A 31K 31Ka5 31M 56F 65D 65Dv 65N 65Nc 65Nc4. Material studied: Hatay Province, Samandağ Meydan Gözlüce (31Ka5) 10 5 2015, 1♂. M. Kemal & A.Koçak leg. Prep. no: GP526♂ GP1097♀.

54. *Euchromius superbellus* (Zeller, 1849)

Range (in code): 06 07 09 13 16 31 39 42 46 65 68 71 76 13F 16A 31M 65A 65Am 65Am4 65D 65Dv 65Du Prep. no: GP525♀. GP2456♂. Material studied: Van Province, Bahçesaray Upper Mukus valley 1840m (65Am4) 5 8 2016 1♂. M.Kemal & A.Koçak leg.

55. *Eudonia mercurella* (Linnaeus, 1758)

Range (in code): 01 10 13 31 33 61 80 10K 10Ka 13F 31K 31Ka3. Material studied: Hatay Province, Samandağ Meydan Karabucak 35m (31Ka3) 9 4 2012 1♀. M.Kemal & A.Koçak leg. New to Hatay Province!

56. *Eurrhysis cacuminalis* (Eversmann, 1843)

Range (in code): 06 32 42 65 32C 65K 65Kb. Material studied: Van Province, Erek Mt. Hoşpurak 2180m (65Kb) 13 6 2009 1♂ (diurnal). M. Kemal & A.Koçak leg.

57. *Euzophera alpherakyella* Ragonot, 1887 (Figs. 26-32)

Range (in code): 65 65N 65 65N 65Np6 65Nm. Material studied: Van Province, Tuşba Ağartı (65Np6) 1835m 3 5 2014 1♂ 1♀. M. Kemal & A.Koçak leg. GP2464♂, GP2466♀.

Although some discrepancies occur between the holotype ♂⁴ and our male specimen, we are of the opinion that the specimens from Van Province belong to *Euzophera alpherakyella* Rag. This species is distributed from Iran to Central Asia. New to Turkey and Van Province!



Fig. 26 - *Euzophera alpherakyella*. Female upperside. Van Province, Tuşba, Ağartı. M. Kemal (Cesa)

⁴ Cf. Roesler 1973. Microlepidoptera Pal. 4: Taf. 7 fig.68 (adult), Taf. 53 fig.68♂ (genitalia of Holotype), and Taf. 109 fig.68 (♀ genitalia).



Fig. 27 - *Euzophera alpherakyella*. Male genitalia GP2464. Van Province, Tuşba, Ağartı. M. Kemal (Cesa)



Fig. 28 - *Euzophera alpherakyella*. Female genitalia GP2466. Van Province, Tuşba, Ağartı. M. Kemal (Cesa)



Figs. 29-32 - *Euzophera alpherakyella*. Male tympanal organ GP2464 (left double), female tympanal organ GP2466 (right double). M. Kemal (Cesa).

58. *Euzophera (s.str.) imperfectella* Ragonot, 1895

Range (in code): 13 23 31 46 56 65 13A 13Ab 13Ax 13F 31F 31M 56F 56F1 56Fm 65D 65Df 65Fz 65N 65Np2 65Nm. Material studied: Bitlis Province, Adilcevaz Süphan Mt. Aygır 1960m (13Ab), 8 9 2013, 1♂. M. Kemal & A.Koçak leg. (Koçak & Kemal, 2015b: 20, fig.6).

59. *Evergestis boursini* Amsel, 1939 (Fig. 33)

Range (in code): 58 65 58N 65D 65Df. GP2555♂ (Kemal & Koçak, 2017b: 52, fig.82). Material studied: Van Province Çatak Saklıvadi 2030m (65Df) 8 10 2016 2♂, nocturnal. M.Kemal & A.Koçak leg.



Figs. 33, 34 - *Evergestis boursini*. Upperside of male. Van Province (left), *Evergestis desertalis*. Upperside of female. Iğdır Province (right). M.Kemal (Cesa)

60. *Evergestis desertalis* (Hübner, [1813]) (Fig. 34)

Range (in code): 05 06 26 36 42 44 76 05A 36D 36Db 44E 44Eh 76B 76Bb 76C Material studied: Iğdır Province, Iğdır Kentormanı 960m (76Bb) 9 5 2012 1♀. M. Kemal & A.Koçak leg.

61. *Evergestis flavifuscalis* Rebel, 1903 (Figs. 35-39)

Range (in code): 33 56 65 33H 56F 56F1 65B 65Bo 65Bx 65N 65Nc 65Nr2 65Nm Prep. no: GP2540♂. Material studied: Siirt Province Şirvan Akgeçit 1210m (56F1) 3 7 2013 1♂; Van Province, Gevaş, Artos Mt. 1980m (65Fp) 15 7 2012 2♀; Tuşba, YYU Kampus 1680m (65Nc) 11 6 2014, 8♂ (diurnal). M. Kemal & A. Koçak leg.; Tuşba Ağartı 2030m (65Nr2) 27 6 2014 5♂ M.Kemal & A.Koçak leg.; Başkale district, Zıyanis 2400m 9 7 2015 1♂ (nocturnal). M. Kemal & A. Koçak leg.

Evergestis mundalis and *flavifuscalis* occurs in Van Province, but in different localities. As their male genitaliae of these two taxa are significantly different, we consider them two distinct species. New to Siirt and Van Provinces!



Figs. 35, 36 - *Evergestis flavifuscalis*. Male upperside (left), and underside (right). Van Province, Tuşba, YYU Kampus 1680m (65Nc) 11 6 2014. M. Kemal (Cesa)



Fig. 37 - *Evergestis flavifuscalis*, male genitalia and terminal segment of abdomen, GP2540. M. Kemal (Cesa)



Figs. 38, 39 - *Evergestis flavifuscalis*, male tympanal organ, GP2540. Before preparation (left), after preparation (right), M. Kemal (Cesa)

62. *Evergestis frumentalis* (Linnaeus, 1761)

Range (in code): 05 06 08 13 16 17 32 36 38 42 65 71 76 05A 06N 06Nc 06R 06Rd 06Rh 13G 13Gw 13Gs 16A 36D 36Db 65D 65Df 65Dh 65Dx 65Dl 65Dlc 65E 65Eb 65Ec 65Fz 65M 65Mc 65Md 76A 76Ac 76Ac 76B 76Bf 76Bh Prep. no: GP489♂. Material studied: Iğdır Province, Aralık, DÜÇ 830m (76Ac), 22 4 2012 1♂. M. Kemal & A. Koçak leg.

63. *Evergestis mundalis* (Guenée, 1854) (Figs. 40-44)

Range (in code): 13 31 44 65 13F 31M 44E 44Ee 65A 65Am 65Am1 65B 65Bo 65Bx 65D 65Df 65F 65Fp 65Fz 65K 65Kz 65Kğ 65N 65Np1 65Np2 65Np4 65Nr2 65Nm Prep. no: GP2541♂ Material studied: Van Province, Tuşba: Ağartı 1835m (65Np6) 30 5 2014 1♂; Irerini Mt. 2030m (65Nr2), 10 6 2014, 1♂; Ağartı 1950m (65Np2) 19 6 2014 1♂; Ağartı nanelik 2070m (65Np4), 7 6 2014 1♂, GP2541♂. M. Kemal & A. Koçak leg.; Çatak Saklıvadi 2030m (65Df) 25 7 2016 2♂. M. Kemal & A. Koçak leg. (see *Evergestis flavifuscalis*).



Figs. 40, 41 - *Evergestis mundalis*. Male upperside (left), and underside (right). Van Province, Tuşba, İrerini Mt. 2030m (65Nr2), 10 6 2014. M. Kemal (Cesa)



Fig. 42 - *Evergestis mundalis*, male genitalia and terminal segment of abdomen, GP2541. M. Kemal (Cesa)



Figs. 43, 44 - *Evergestis mundalis*, male tympanal organ, GP2541. Before preparation (left), after preparation (right), M. Kemal (Cesa)

64. *Evergestis politalis* ([Denis & Schiffermüller],1775)

Range (in code): 05 06 13 16 38 42 44 58 65 05A 13A 13Ab 13Ax 16A 44E 44Eh 65F 65Fp 65Fz. Material Studied: Van Province: Gevaş Artos Mt. 1980m (65Fp) 15 7 2012, 1♂ (nocturnal). M. Kemal & A.Koçak leg.

65. *Evergestis umbrosalis* (Fischer v. Röslerstamm,[1842]) (Figs. 45-47)

Range (in code): 05 06 08 12 13 14 16 30 31 34 46 51 65 69 70 05A 08H 08Ha 12A 12Ab 13B 13Bg 13G 13Gw 13Gü 13Gs 16A 30B 30Bb 30Bk 31F 31Fb 46G 46Gi 65F 65Fr 65Fw 65Fz 70C 70Cg. Material studied: Bitlis Province, Tatvan, Nemrut Volcano, Caldera 2265m (13Gs), 12 6 2015 1♂. M. Kemal & A. Koçak leg. New to Bitlis Province!



Fig. 45 - *Evergestis umbrosalis*. Male genitalia GP2327. Van Province, Gevaş, Kayalar 1900m (65Fr). M. Kemal (Cesa)



Figs. 46, 47 - *Evergestis umbrosalis*. Male Tympanal organ. GP2327. Before preparation (left), after preparation (right). M. Kemal (Cesa)

66. *Hellula undalis* (Fabricius, 1781)

Range (in code): 01 13 16 31 33 46 65 73 80 13F 16A 31A 31G 31K 31Ka 31Ka1 31M 65A 65Am 65Am4 65N 65Nc 65Nc4 73A 73Ad 73Ad2. Material studied: Hatay Province Samandağ Meydan Fenkaltı (31Ka1) 10 10 2015, 2♂. O. Sertel leg. (Koçak & Kemal, 2015b: 21, fig.7).

67. *Hyperlais dulcinalis* (Treitschke, 1835)

Range (in code): 05 06 13 46 65 70 71 76 05A 06R 13F 65A 65Am 65Am1 65D 65Dg 65F 65Fr 65L 65Lb 65N 65Np 65Np1 65Np2 65Np6 65Nm 76C. Material studied: Van Province, Tuşba Ağartı 1835m (65Np6) 10 5 2014 4♂, Ağartı (65Np1) 1860m 18 5 2014 2♂. M. Kemal & A.Koçak leg.

68. *Hypotia colchicalis* (Herrich-Schäffer, [1855])

Range (in code): 05 13 31 38 42 65 70 05A 13A 13Ab 42B 65D 65Df 65N 65Nb. Material studied: Bitlis Adilcevaz Süphan Mt Aygır 1960m (13Ab) 9 9 2013 1♂ (nocturnal). M.Kemal & A.Koçak leg. New to Bitlis Province!

69. *Hypotia massilialis* (Duponchel, 1832)

Range (in code): 06 13 46 13A 13Ab. Material studied: Bitlis Adilcevaz Süphan Mt Aygır 1960m (13Ab) 8 9 2013 1♂ (nocturnal). M.Kemal & A.Koçak leg. New to Bitlis Province!

70. *Hypsopygia costalis* (Fabricius, 1775)

Range (in code): 01 06 09 13 16 30 31 33 36 38 39 46 56 65 73 75 76 09K 09Ka 13A 13Aa 13B 13Ba 13F 16A 30D 30Dx 31M 33A 33Ac 36D 36Db 65A 65An 65D 65Dh 65Du 65Dv 65F 65Fr 65L 65Lb 73A 73Ad 73Ad2 75F 75Fb. Material studied: Şırnak Province, Beytüşşebap: Dule, Öküz mağarası 1250m (73Ad2) 17 8 2013, 1♀. M. Kemal & A.Koçak leg.; Van Province, Bahçesaray Vasting (65An) 4 6 2016, 1♂. M. Kemal & A.Koçak leg. New to Şırnak Province!

71. *Isauria dilucidella* (Duponchel, 1836) (Figs. 48-50)

Range (in code): 05 06 10 13 16 23 25 31 32 38 42 46 47 50 53 58 65 71 05A 10K 10Ka 13A 13Ab 13Ax 13F 13F20 13F35 13F38 13F40 16A 23I 23Ib 31K 31Ka 31Ka7 65A 65Ab 65Aba 65Ai 65C 65Cb 65D 65Du Prep. no: GP2230♂ GP2533♂. Material studied: Van Province: Bahçesaray Krapet Pass 2820m (65Aba) 6 8 2016 1♂. M.Kemal & A.Koçak leg.; Çaldıran Tendürek Pass 2500m (65Cb) 16 6 2012, 1♂ (GP2588♂). M. Kemal & A.Koçak leg. (Kemal & Koçak, 2017a: 171).

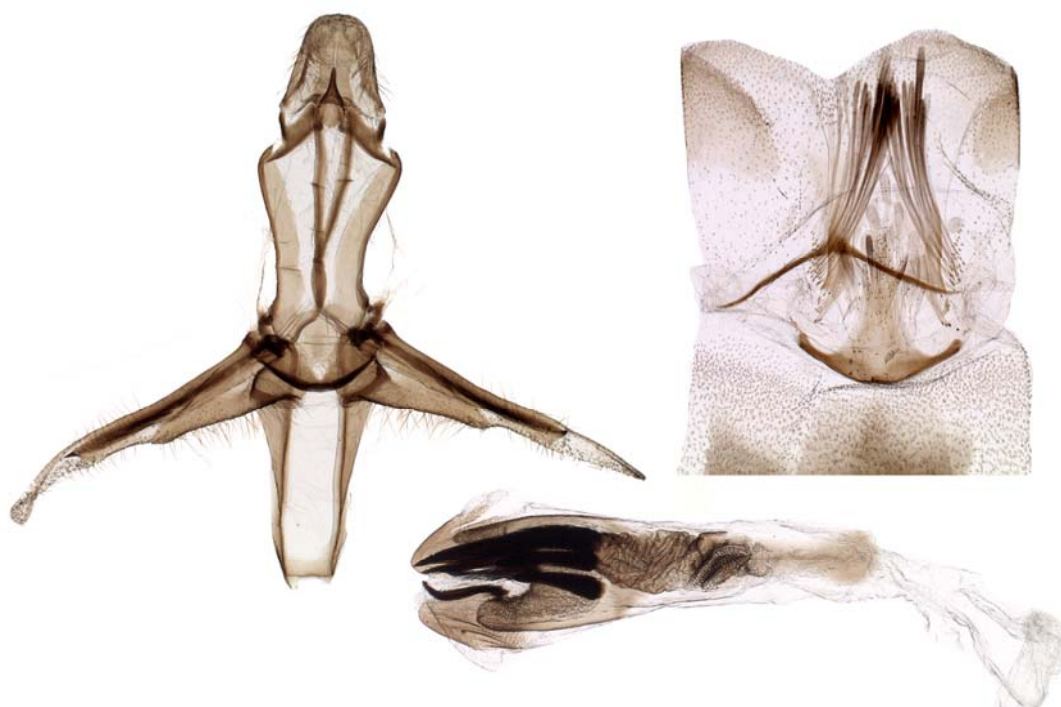


Fig. 48 – *Isauria dilucidella*, male genitalia and coremata. GP2533. Van Province, Bahçesaray Krapet Pass 2820m (65Aba), 6 8 2016. M. Kemal (Cesa)



Figs. 49, 50 – *Isauria dilucidella*, male tympanal organ. GP2588. Before preparation (left), after preparation (right). Van Province, Çaldıran, Tendürek Pass 2500m, 16 6 2012. M. Kemal (Cesa)

72. *Lambaesia fumosella* (Ragonot, 1887)

Range (in code): 65 76 65D 65Df 76C Prep. no: GP2536♂. Material studied: Van Province Çatak Saklıvadi 2030m (65Df) 1 9 2016 1♂. A.Koçak leg.

73. *Laristania taftanella* (Amsel, 1954) (Figs. 51-52)

Range (in code): 13 65 13F 13F01 13F6 65B 65B0 65Bx Prep. no: GP2318♂. New to Van Province!



Figs. 51, 52 - *Laristania taftanella*. Male genitalia, coremata (above) and tympanal organ (below). GP 2318♂. Van Province, Başkale, Zıyanis 2400m. M. Kemal (Cesa)

74. *Loxostege ayhanana* Kemal & Koçak, 2017

Range (in code): 65 65A 65D 65Dg (Kemal & Koçak, 2017d).

75. *Loxostege wagneri* Zerny, 1929**(Figs. 53-55)**

Range (in code): 06 42 50 65 06Y 06Ya 42B 50G 65F 65Fp 65Fz Material studied: Van Province, Gevaş, Artos Mt. 2180m 11 6 2012 1♂ (diurnal). M. Kemal & A. Koçak leg. (Kemal & Koçak, 2016b: 18, nr.388).

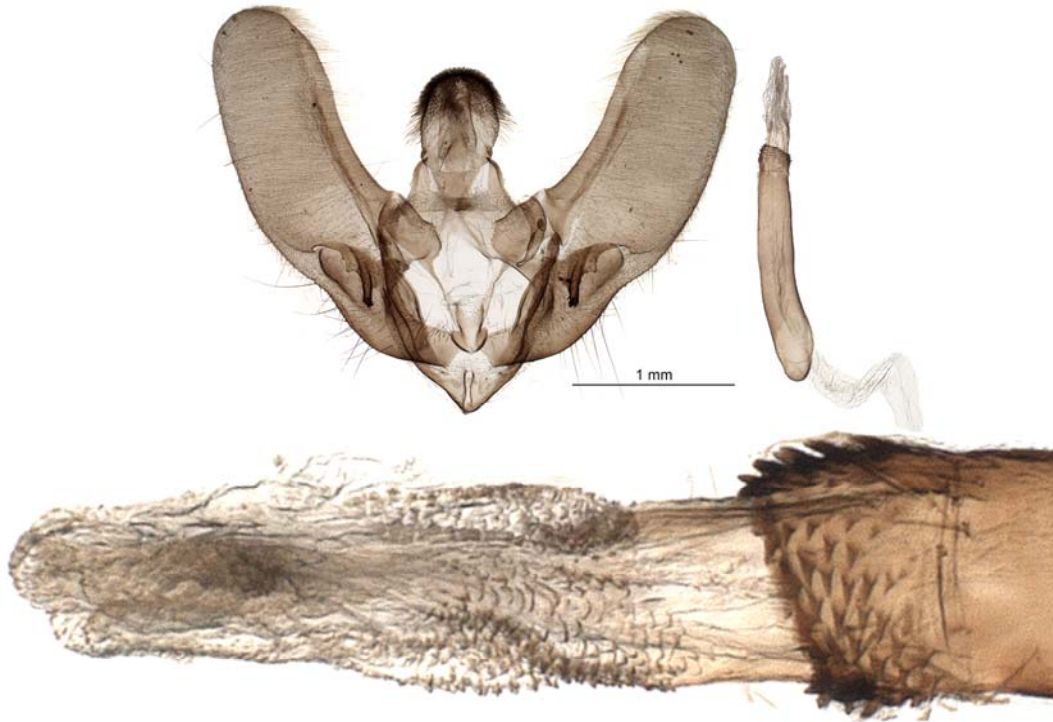


Fig. 53- *Loxostege wagneri*, male genitalia, with enlarged aedeagus. GP2587. Van Province, Gevaş, Artos Mt. 2180m 11 6 2012. M.Kemal (Cesa)



Figs. 54, 55 - *Loxostege wagneri*, male tympanal organ. GP2587. Before preparation (left), after preparation (right). M.Kemal (Cesa)

76. *Mecyna marcidalis* (Fuchs, 1879) (Figs. 56-58)

Range (in code): 12? 13 44? 46? 47 58? 65 71? 73 13F 13F11 13F35 13F38 13F41 47D 56F 56F1 65A 65Am 65Am4 73A 73Ad 73Ad2 Prep. no: GP787♂ GP2529♂. Material studied: Siirt Province Şirvan Akgeçit 1210m (56F1) 3 7 2013 1♂; Şırnak Province, Beytüşşebap Öküzmağarası 1250m (73Ad2) 17 8 2013 1♂, nocturnal. M. Kemal & A.Koçak leg. New to Siirt and Şırnak Provinces!

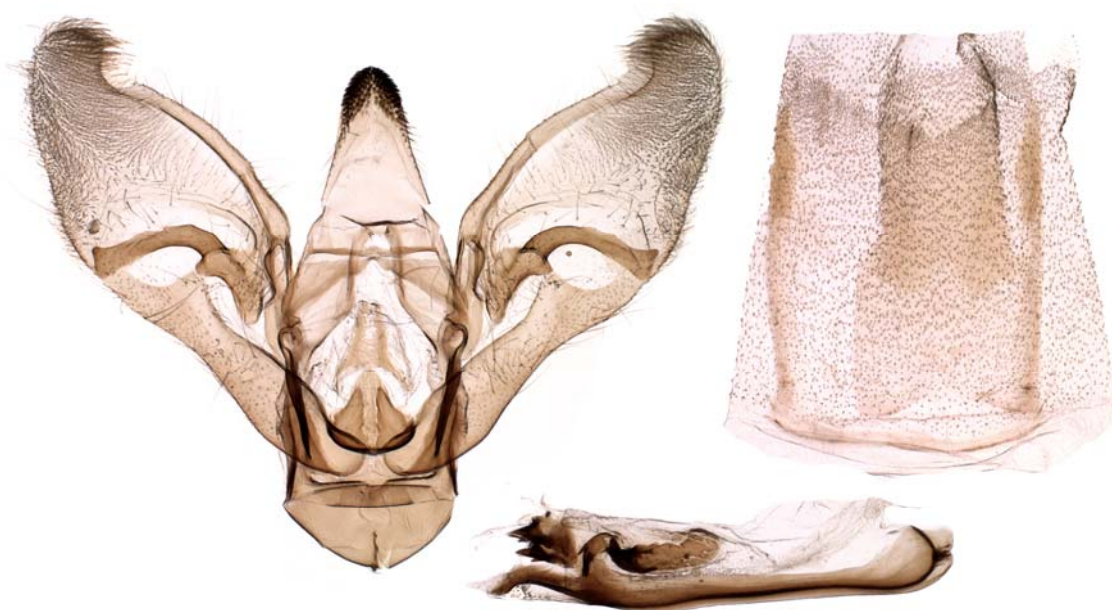
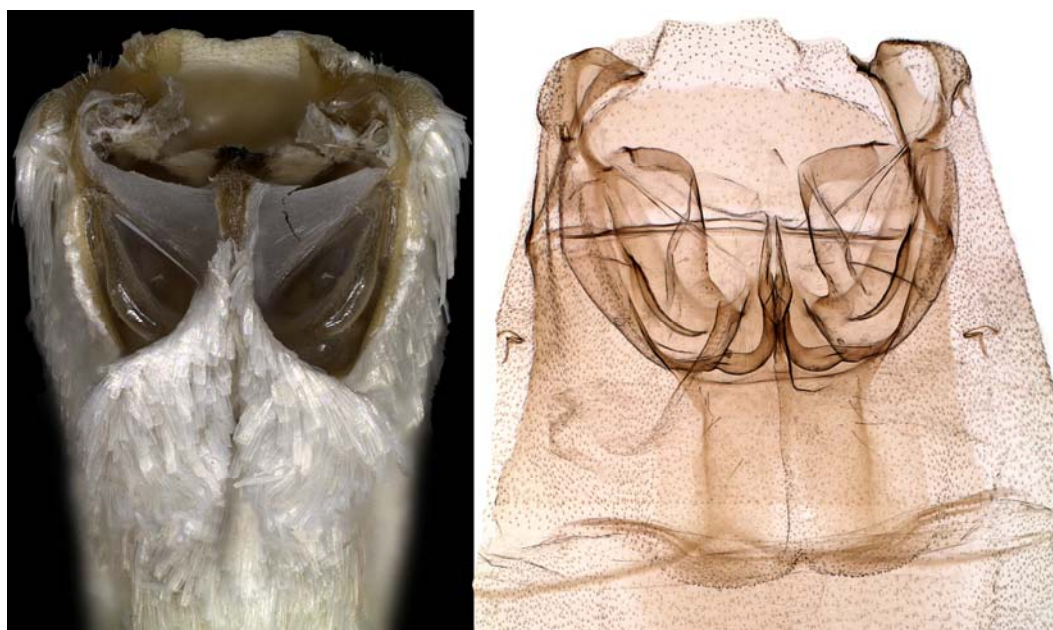


Fig. 56 – *Mecyna marcidalis*, male genitalia and terminal segment of abdomen. GP2529. M.Kemal (Cesa)



Figs. 57, 58 – *Mecyna marcidalis*, male tympanal organ. GP2529. Before preparation (left), after preparation (right). M.Kemal (Cesa)

77. *Mecyna subsequalis* (Herrich-Schäffer, 1855)

Range (in code): 01 05 06 13 24 29 30 31 33 42 44 46 56 58 65 69 71 76 80 05A 06H 06R 13A 13Ab 13Ax 13F 13Fo1 13F35 13F38 13G 13Gü 13Gw 29A 30B 30Bc1 30Bx 31K 31Ka 31Ka3 31Ka6 44E 44Eh 56F 56Fs 56Fs1 65A 65At 65At5 65Ab 65Aba 65B 65Bo 65Bx 65D 65Df 65Dh 65Dv 65Dt 65F 65Fz 65Fp 76C 76D 76Dd. Material studied: Malatya Province, Darende 5km NW Gümüşdere 1300m (44Eh) 13 9 2014 4♂. M.Kemal & A.Koçak leg.; Hatay Province, Samandağ, Meydan Karabucak 35m (31Ka3) 9 5 2015 1♂. M. Kemal & A.Koçak leg., Fenkaltı 190m (31Ka6) 10 6 2015 1♀. O.Sertel leg.; Van Province, Başkale, Zıyanis 2400m (65Bo) 9 7 2015 2♂. M. Kemal & A. Koçak leg. Prep. no: GP774♀. New to Malatya and Hatay Provinces! (Koçak & Kemal, 2015b: 21, fig.8).

78. *Mecyna trinalis* ([Denis & Schiffermüller], 1775)

Range (in code): 05 06 08 13 23 29 30 44 46 56 61 65 73 76 05A 06R 06Rb 08H 08Hc 13F 13F6 30B 30Bc1 30Bx 44L 44Lc 56F 56Fs 56Fs1 65A 65Ac 65Ac3 65Ai 65At 65At5 65B 65Bo 65Bx 65D 65Df 65Dh 65Dt 65K 65Kd 65Ké

65Kğ 65N 65Np2 65Nr2 65Nm 73A 73Ad 73Ad1 76C 76D 76Dd. Material studied: Siirt Province, Şirvan, Nallıkaya Dikilitaş 1940m (56Fs1) 30 6 2013 1♂. M. Kemal & A. Koçak leg. ; Van Province, Tuşba, İrerini Mt. 2030m (65Nr2) 27 6 2014 6♂., Ağartı 1950m (65Np2) 19 6 2014 1♂. M. Kemal & A. Koçak leg.; Başkale, Zıyanis 2400m (65Bo) 9 7 2015 1♂. M. Kemal & A. Koçak leg. New to Siirt Province!

79. *Megasis (Tsaraphycis) mimeticella* (Staudinger, 1879) (Figs. 59-60)

Range (in code): 05 06 36 42 44 46 58 65 05A 65B 65Bo 65Bx 65N 65Np 65Nm Prep. no: GP2240♂ GP2320♂. Material studied: Van Province: Tuşba Ağartı 1750m (65Np) 5 5 2015 1♂ (sympatric with *Megasis kocaki*). M. Kemal & Koçak leg.; Başkale, Zıyanis 2400m 9 7 2015 1♂. M Kemal & A. Koçak leg. New to Van Province!



Fig. 59 – *Megasis mimeticella*. Upperside of male, GP2240. Van Province, Başkale, Zıyanis 2400m 9 7 2015. M Kemal (Cesa)



Fig. 60 – *Megasis mimeticella*. Male genitalia, GP2240. Van Province, Başkale, Zıyanis 2400m 9 7 2015. M Kemal (Cesa)

80. *Megasis (s.str.) kocaki* Akın, 2016

Range (in code): 13 65 13F 13G 13Gs 13Gw 65A 65Ai 65D 65Dg 65Dga 65N 65Np 65Nm. Material studied: Bitlis Province, Tatvan, Nemrut Volcano, Caldera 2265m (13Gs) 12 6 2015, 5♂. M. Kemal & A. Koçak leg. Prep. no: GP2243♂

81. *Metaeuchromius latoides* Schouten, 1997 (Figs. 61-66)Range (in code): 33 50 33A 33Ac.

Schouten (1997: 119) described this species from Central Anatolia (Acıgöl), based upon a single female. The authors collected a small series of this species from Mediterranean coast, about 210m a.s.l. (Anamur) in the second half of August. The female genitalia and external features fit well to *Metaeuchromius latoides* Schouten. The male genitalia and female tympanal organ are illustrated here for the first time. The images of the species from Anamur will be helpful in understanding *Metaeuchromius latoides* Schouten better. Material studied: İçel Province, Anamur Taşocağı 210m (33Ac), 19 8 2015 10♂♀. M. Kemal & A.Koçak leg. New to İçel Province!



Figs. 61, 62 - *Metaeuchromius latoides* Schouten, uppersides of male (left), and female (right). İçel Prov., Anamur 210m, 19 8 2015, M. Kemal (Cesa)



Figs. 63, 64 - *Metaeuchromius latoides* Schouten, male genitalia GP2172 (above), female genitalia GP2316 (below). M. Kemal (Cesa)



Figs. 65, 66 - *Metaeuchromius latoides* Schouten, female tympanal organ (GP2316), before preparation (left), after preparation (right). M. Kemal (Cesa)

82. *Metallosticha argyrogrammos* (Zeller, 1847)

Range (in code): 05 06 13 16 21 31 38 42 45 46 48 56 65 70 05A 06R 13A 13Ab 13Ax 16A 21L 21Lc 31M 56Fb 65A 65Am 65Am4 65D 65Df 65Du 65Dh 65Fz 73D 73Df. Material studied: Şırnak Province, Cudi Mt. Cevizdüzü 900m (73Df) 21 5 2008 1♂. M. Kemal & A.Koçak leg.; Bitlis Province Adilcevaz Süphan Mt Aygır 1960m (13Ab) 15 7 2015 4♂. M.Kemal & A.Koçak leg. New to Bitlis and Şırnak Provinces!

83. *Metasia supbandalis* (Hübner, [1823]) (Fig.1)

Range (in code): 05 06 16 17 33 34 35 42 45 58 65 71 76 05A 06R 16A 33A 33Ac 65B 65Bo 65Bx 65D 65Df 65Kd 65Kg 65N 65Np2 65Nm 76C. Material studied: Van Province: Kurubaş Pass 2240m (65Kd) 30 7 2002, A.Koçak leg.; Başkale Zıyanis 2400m (65Bo), 10 7 2015 1♂ (nocturnal). M. Kemal & A.Koçak leg.; Van Province, Çatak Saklıvadi 2030m (65Df) 1 9 2016 1♂. A.Koçak leg. New to Van Province! (Fig.1).

84. *Metasia virginalis* Ragonot, 1894

Range (in code): 13 46 47 56 73 13F 47D 56F 56Fm 73A 73Ad 73Ad2. Material studied: Siirt Province, Şirvan Maden Pass 1360m (56Fm) 1 7 2013, 1♂. M. Kemal & A. Koçak leg.; Şırnak Province, Beytüşşebap Öküzmağarası 1250m (73Ad2) 17 8 2013, 4♂. M. Kemal & A.Koçak leg. New to Siirt and Şırnak Provinces!

85. *Metaxmeste sericatalis* (Herrich-Schäffer, [1848])

Range (in code): 13 16 31 34 46 13B 13Bg 13G 13Gs 13Gü 13Gw 16A 31E. Material studied: Bitlis Province, Ahlat, Nemrut Volcano, Caldera 2275m (13Gs), 29 5 2015. 5♂♀ M. Kemal & A. Koçak leg.

86. *Myelois (Gnathogutta) circumdatella* Lederer, 1858

Range (in code): 01 13 21 31 46 49 65 13F 31M 49F 49Fb 49Ff 65A 65An 65Am 65Am1 65Am4 65D 65Du 65Dh 65N 65Nr7 65Np1 65Nm. Material Studied: Van Province, Tuşba Ağartı (65Np1) 17-18 5 2014 4♂♀. M. Kemal & A.Koçak leg.; Çatak 3km NNE 1500m 9 6 2001 4♀. M. Kemal & A.Koçak leg.; Muş Province Varto Armutkaşı 1710m (49Fb) 27 5 2015 1♂ 1♀. M. Kemal & A.Koçak leg. New to Muş Province!

87. *Myelois (Gnathogutta) pluripunctella* (Ragonot, 1887)

Range (in code): 05 13 30 31 46 56 65 05A 13F 13F6 31M 56F 56Fb 65F 65Fp 65Fz. Material studied: Siirt Province, Şirvan Maden crossing 960m (56Fb) 10 8 2013, 1♂ (nocturnal). M. Kemal & A.Koçak leg.; Van Province Gevaş Artos Mt. 1980m (65Fp) 15 7 2012, 1♂ (nocturnal). M. Kemal & A.Koçak leg. New to Siirt Province!

88. *Myelois (Gnathogutta) pumicosa* Lederer, 1855

Range (in code): 13 21 46 56 65 13F 21F 56F 56Fb 56Fs 56Fs1 65A 65Am 65Am1 65Am4 65D 65Ds 65F 65Fg.

Material studied: Van Province Bahçesaray Upper Mukus valley (65Am4) 1840m 25 5 2016, 1♂. M. Kemal & A. Koçak leg.

89. *Myelois (s.str.) circumvoluta* (Fourcroy, 1785)

Range (in code): 01 06 13 17 21 31 33 36 49 65 71 73 80 06R 06Rd 13F 21L 21Lc 31M 36D 36Db 49F 49Fb

65Am 65Am 65Am1 65Am4 65D 65Dh 65Ds 65Dv 65Du 65K 65Kd 65Kg 65N 65Np1 65Nm 73D 73Df. Material studied: Van Province, Çatak Konalga 1800m (65Ds) 26 5 2001 1♂2♀. M. Kemal & A. Koçak leg.; Muş Province Varto Armutkaşı 1710m (49Fb) 27 5 2015 1♂. M. Kemal & A. Koçak leg. New to Muş Province!

90. *Myelois (s.str.) cribratella* Zeller, 1847

Range (in code): 06 44 73 73A 73Ak. Material studied: Şırnak Province, Beytüşşebap Komato

(73Ak) 1065m 3 5 2013, 1♂. M. Kemal & A. Koçak leg. New to Şırnak Province!

91. *Myrlaea albistrigata* (Staudinger, 1881)

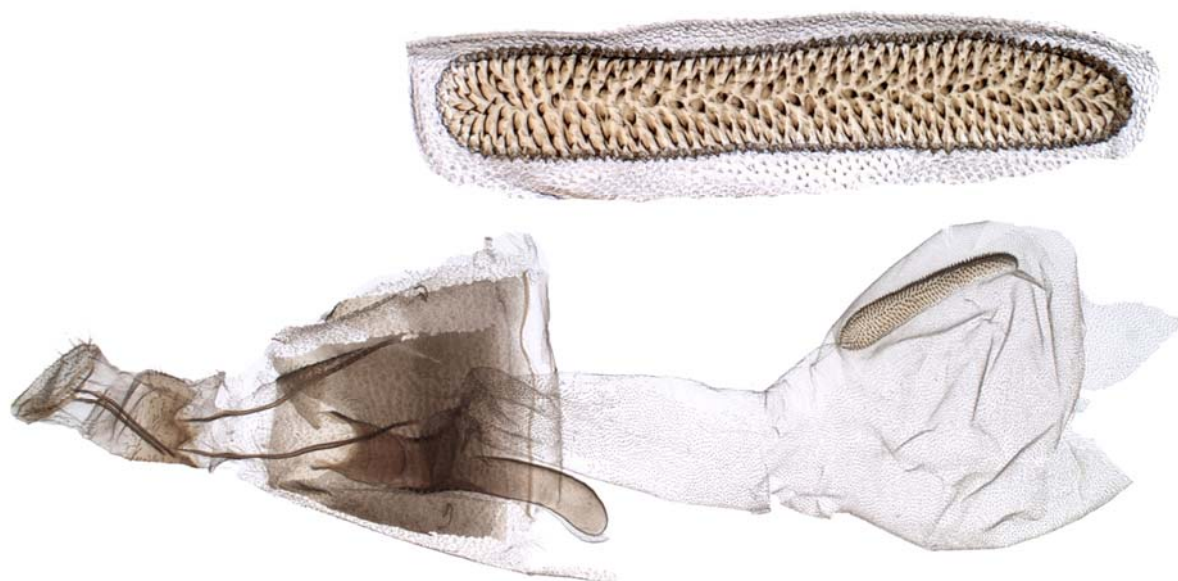
Range (in code): 05 06 13 30 42 46 47 56 65 71 76 05A 13A 13Ab 13Ax 13F 13F6 30B 30Bc1 30Bx 42B 56F 56F1

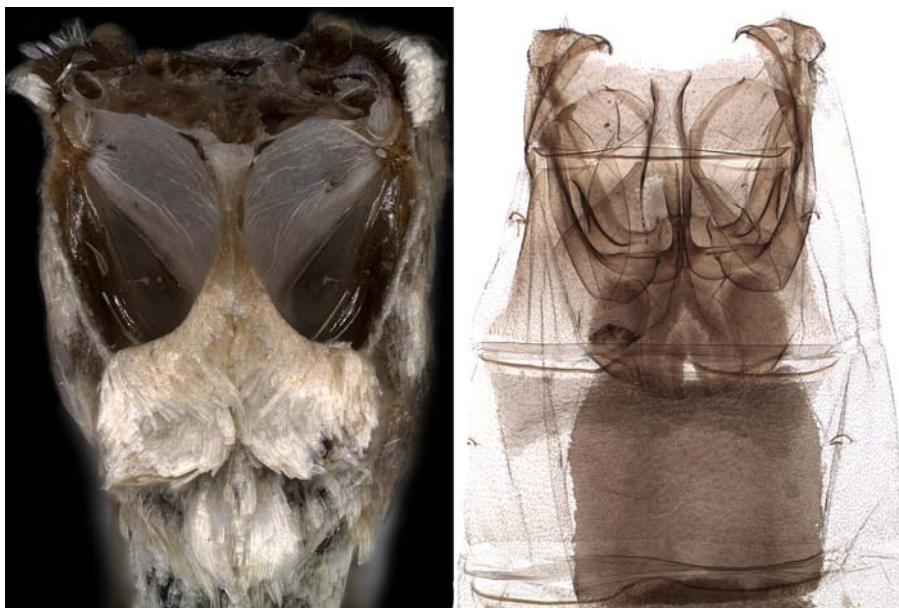
56Fs 56Fs1 65A 65Ac 65Ac3 65Ai 65B 65Bo 65Bx 65D 65Dh 65Dt 65F 65Fp 65Fz 65N 65Np2 65Nm 76C (Koçak & Kemal, 2015b: 23, fig.11). Material Studied: Van Province, Tuşba Ağartı 2030m (65Nr2) 27 6 2014 3♂ M. Kemal & A. Koçak leg.

92. *Nomophila noctuella* ([Denis & Schiffermüller], 1775) (Figs. 67-69)

Range (in code): 01 05 06 08 11 13 14 16 17 21 30 31 32 33 34 35 37 38 39 44 46 48 49 55 56 58 60 63 65 71 73

76 80 05A 06R 08H 08Ha 13A 13Aa 13Ab 13Ax 13B 13Ba 13F 13F6 13G 13Gö 13Gg 13Gw 13Gü 13Gs 16A 21N 21Nb 21Nc 30B 30Bc1 30Bx 30Br 31A 31H 31M 33A 33Ad 44L 44Lc 48L 49F 49Fb 49Ff 55F 56D 56Dc 56F 56Fo 58G 60G 63D 65A 65Ai 65An 65Am 65Am1 65Am2 65Am3 65Ab 65Aba 65D 65Da 65Dd 65Dda 65Df 65Dh 65Dg 65Di 65Dlc 65Dr 65Dt 65Du 65Dv 65E 65Eb 65Ec 65Ec 65Ed 65F 65Fb 65Fc 65Fd 65Fp 65Fw 65Fz 65G 65Gf 65Gn 65N 65Nc 65Nc4 65K 65Kb 65Kc 65Kl 65Ku 65Ky 65Ky1 65L 65Lb 65M 65Mc 65Md 65N 65Nk 65Np 65Np1 65Np2 65Nm 73A 73Ac 73Ac2 73D 73Db 73Df 73Dfb 73Dfc 76B 76Bc 80B 80Bc 80E 80Ea. Material studied: Van Province, Tuşba, Ağartı (65Np6) 30 5 2014 1♂; Bahçesaray, Upper Mukus valley (65Am3) 1 5 2016 1♂; Upper Mukus valley 1800m (65Am2) 10 5 2016 1♂; Upper Mukus valley 1840m (65Am4) 25 5 2016 2♂; Paşaköy 1580m (65Ai) 8 5 2016 1♂; Muş Province, Varto, Armutkaşı 1710m (49Fb) 27 5 2015 1♂. M. Kemal & A. Koçak leg. New to Muş Province!

**Fig. 67 – *Nomophila noctuella*. Female genitalia GP2324. Van Province, Gevaş, Yoldöndü. M. Kemal (Cesa)**



Figs. 68, 69 – *Nomophila noctuella*. Female tympanal organ. GP2324. Before preparation (left), after preparation (right). M. Kemal (Cesa)

93. *Nyctegretis lineana* (Scopoli, 1786)

Range (in code): 06 07 13 16 21 31 33 34 46 48 65 71 76 13A 13Ab 13Ax 13F 16A 31M 48L 65A 65Ai 75F 75Fd 76C Material studied: Ardahan Province, Posof 1460m (75Fd) 11 7 2007, 1♂. M. Kemal & A. Koçak leg.; Bitlis Province, Adilcevaz, Süphan Mt Aygır 1970m (13Ab) 14 7 2015, 1♂. M. Kemal & A. Koçak leg. New to Ardahan Province!

94. *Ocrisiodes antiopa* Roesler, 1988

Range (in code): 13 65 13A 13Ab 13Ax 65B 65Bo 65Bx 65F 65Fp 65Fz Prep. no: GP2309♂ GP2319♂ GP2332♀ GP2333♂ (Kemal & Koçak, 2016b: 19-20, figs. 17, 18).

95. *Oncocera amoenella* (Zeller, 1848)

Range (in code): 13 24 36 39 56 65 73 76 13F 24L 36D 36Db 56F 56Fi 65A 65Ai 73A 73Ad2. Material studied: Kars Province, Kağızman Akçay 1200m (36Db) 10 7 2007 1♂. M. Kemal & A. Koçak leg.; Siirt Province, Şirvan Akgeçit 1210m (56Fi) 3 7 2013, 2♂1♀. M. Kemal & A. Koçak leg.; Şırnak Province, Beytüşşebap Öküzmağarası 1250m (73Ad2) 17 8 2013 1♂. M. Kemal & A. Koçak leg. New to Kars, Şırnak and Siirt Provinces!

96. *Oncocera semirubella* (Scopoli, 1763)

Range (in code): 01 05 06 07 08 09 13 14 16 17 26 31 33 36 46 48 56 65 71 75 76 80 81 05A 06R 06Rd 07B 07Bb 08H 08Ha 13F 16A 31A 31G 31O 31M 36D 36Db 48L 56F 65A 65Ai 65D 65Dv 65F 65Fç 65Fz 75F 75Fb 75Fd. Material studied: Antalya Province, Alanya Kargıcak 100m (07Bb), 18 8 1985, 1♂. A. Koçak leg.; Ardahan Province, Posof Ilgar Mt 2000m (75Fd) 13 8 2007 1♂. M. Kemal & A. Koçak leg. New to Ardahan Province!

97. *Palpita vitrealis* (Rossi, 1794)

Range (in code): 01 16 17 31 33 34 46 80 16A 31K 31Ka 31Ka3 31Ka6 31Ka7 33A 33Ac. Material studied: Hatay Province, Samandağ, Meydan Fenkaltı 190m (31Ka6) 10 6 2015 1♂, Karabucak 35m (31Ka3) 8 9 2015. O. Sertel leg. New to Hatay Province!

98. *Paracorsia repandalis* ([Denis & Schiffermüller], 1775)

Range (in code): 05 06 13 16 31 38 42 44 45 46 65 70 76 05A 06R 13A 13Ab 13Ax 13F 16A 31K 31Ka 31Ka3 31Ka5 44I 44Ic 44L 44Lc 65A 65Ac 65Ac3 65Ai 65Am 65Am1 65D 65Df 65Dh 65Dg 65Dt 65F 65Fp 65Fz 65N 65Np2 65Nm 70C 70Ce 76C. Material studied: Malatya Province, Kale Kumluyazı E 860m (44Ic), 19 9 2014, 12♂♀. M. Kemal & A. Koçak leg.; Hatay Province, Samandağ, Meydan Gözlüce 210m (31Ka5) 11 5 2015 2♂. M. Kemal & A. Koçak leg.; Van Province, Çatak Çatak 3km NNE 1500m 9 6 2001 1♂, M. Kemal & A. Koçak leg. New to Hatay Province! GP2335♂ (Kemal & Koçak, 2016b: 20, fig. 19).

99. *Patania balteata* (Fabricius, 1798)

Range (in code): 01 08 16 31 33 46 08H 08Ha 16A 31K 31Ka 31Ka3 31Ka7 31M 33A 33Ac. Material studied: Hatay Province, Samandağ Meydan Karabucak 35m (31Ka3) 12 5 2015 1♂, Gözlüce (31Ka7) 10 5 2015 1♂; İçel Province, Anamur Taşocağı 210m (33Ac) 19 8 2015, 1♂. M.Kemal & A.Koçak leg. New to İçel Province!

100. *Patania ruralis* (Scopoli, 1763) (Figs. 70-72)

Range (in code): 05 13 16 31 34 44 46 48 65 75 81 05A 13F 16A 31M 44L 44Lc 48L 65F 65Fg 65L 75F 75Fd



Fig. 70 – *Patania ruralis*. Male genitalia and coremata. GP2322. Van Province, Edremit. M.Kemal (Cesa)



Figs. 71, 72 – *Patania ruralis*. Male tympanal organ. GP2322. Before preparation (left), after preparation (right). M.Kemal (Cesa)

101. *Pediasia matricella* (Treitschke, 1832)

Range (in code): 01 05 06 13 23 33 42 46 50 58 65 71 05A 13F 23C 65A 65Am 65Am4 65F 65Fm 65N 65Nc 65Nc4 65Np1 65Nm. Material studied: Van Province_Tuşba Ağartı 1860m (65Np1) 1 10 2014, 1♂ M.Kemal & A.Koçak leg.; Bitlis Province, Adilcevaz Süphan Mt Aygır 1960m (13Ab) 8 9 2013, 3♂ M.Kemal & A.Koçak leg. Prep. no: GP523♂ GP2481♂

102. *Pempelia alpigenella* (Duponchel, 1836) (Figs. 73-75)

Range (in code): 05 06 25 33 42 44 46 65 70 76 05A 06K 06Kb 25N 25Na 33A 42B 44L 44Lc 65A 65Ac 65Ac3 65Ab 65Aba 65D 65Dt 65Du 65F1 65Fz 70C 70Ce Prep. no: GP2339♂ Material studied: Van Province, Gevaş Kavarsük 2080m (65F1) 30 7 2014 1♂1♀; Malatya Province, Beydağı NP 1190m (44Lc) 19 6 2015, 1♂. M. Kemal & A.Koçak leg. New to Malatya Province!



Fig. 73 - *Pempelia alpigenella*, male genitalia. GP2339. Van Province, Çatak, Dalbastı 1600m. M.Kemal (Cesa)



Figs. 74, 75 - *Pempelia alpigenella*, male tympanal organ. GP2339. Before preparation (left), after preparation (right). M.Kemal (Cesa)

103. *Pempelia palumbella* ([Denis & Schiffermüller], 1775)

Range (in code): 01 05 06 31 33 42 46 56 80 05A 31K 31Ka 31Ka3 42J 56F 56Fb. Material studied: Hatay Province Samandağ Meydan Karabucak 35m (31Ka3) 9 5 2015 2♂. M. Kemal & A.Koçak leg. New to Hatay Province!

104. *Pempeliella ornatella* ([Denis & Schiffermüller], 1775)

Range (in code): 06 44 46 58 65 76 44L 44Lc 65A 65Ab 65Aba 65D 65Df 65F 65Fp 65Fz 65N 65Np6 65Nm 76C. Material studied: Malatya Province, Beydağı NP 1190m (44Lc) 19 6 2015, 1♂; Van Province: Gevaş Artos Mt. 1980m (65Fp) 15 7 2012, 1♂ (nocturnal). M. Kemal & A.Koçak leg.; Tuşba: Ağartı (65Np6) 30 5 2014 1♂. M. Kemal & A. Koçak leg.; Bahçesaray Krapet Pass 2820m (65Aba) 6 8 2016 1♂. M.Kemal & A.Koçak leg. Prep No: GP2486♂. New to Malatya Province!

105. *Phlyctaenomorpha sinuosalis* (Le Cerf,[1910]) (Figs. 76-78)

Range (in code): 07 30 56 65 73 30B 30Bc1 30Bd 30Bx 30C 30Cd 30D 30Dp 30Dx 56F 56F1 56Fm 56Fs 56Fs1 65A 65Ac 65Ac3 65Ai 65Am 65Am3 65Am4 65D 65Dd 65Df 65Dh 65Du 65Dv 65Dt 65F 65Fg 65Fm 65Fp 65Fz 73A 73Ad 73Ad2 73D 73Df Prep. no.: GP2323♂ (Koçak & Kemal, 2015b: 23, fig.12).



Fig. 76 - *Phlyctaenomorpha sinuosalis*. Male genitalia, GP2323. Van Province, Gevaş, Yoldöndü. M. Kemal (Cesa)



Figs. 77, 78 - *Phlyctaenomorpha sinuosalis*. Male tympanal organ. GP2323. Before preparation (left), after preparation (right). M. Kemal (Cesa)

106. *Phycitodes lacteella* (Rothschild,1915) (Fig. 79)

Range (in code): 03 06 09 13 16 31 34 38 42 44 46 65 71 13F 16A 44E 44Ee 65N 65Np 65Nm GP2226♂.



Fig. 79 – *Phycitodes lacteella*. Male genitalia and coremata. GP2226. Van Province, Tuşba, Ağartı 1780m (65Np). M. Kemal (Cesa)

107. *Pima boisduvaliella* (Guenée, 1845)

Range (in code): 06 14 17 42 46 50 65 71 76 65D 65Du 65Dv 65Dh 65N 65Np1 65Nm 76C. Material studied: Van Province, Tuşba Ağartı 1860m (65Np1) 18 5 2014 3♂ M. Kemal & A.Koçak leg.

108. *Polyocha venosa* (Zeller, 1847)

Range (in code): 01 31 33 35 46 48 56 31M 33A 33Ac 56F 56Fb. Material studied: Siirt Province, Şirvan, Maden crossing 960m (56Fb) 10 8 2013 1♂. M. Kemal & A. Koçak leg.; İçel Province Anamur Taşocağı 210m (33Ac) 19 8 2015, 1♂. M.Kemal & A.Koçak leg. New to İçel and Siirt Provinces!

109. *Prochoristis rupicapralis* (Lederer, 1855)

Range (in code): 05 36 63 05A 36D 36Db 63D 63Dd. Material studied: Kars Province, Kağızman, Akçay 1200m (36Db) 10 7 2007 1♀. M.Kemal & A.Koçak leg.; Şanlıurfa Province, Ceylanpınar 1. bridge 375m (63Dd) 27 5 2008, 2♀. M.Kemal & A.Koçak leg. New to Kars and Şanlıurfa Provinces!

110. *Pseudosyria ambustiella* (Ragonot, 1887) (Figs. 80-83)

Range (in code): 06 13 38 42 46 56 65 76 13F 56F 56Fs 56Fs1 65D 65Df 76C Material studied: Siirt Province, Şirvan, Nallıkaya 1940m (56Fs1), 30 6 2013. 1♂. M. Kemal & A. Koçak leg.; Van Province, Çatak, Saklıvadi 2030m 12 7 2016, 1♂. Prep. no: GP2542♂. M. Kemal & A. Koçak leg. (Kemal & Koçak, 2017b).

111. *Pterothrixidia rufella* (Duponchel, 1836)

Range (in code): 05 13 45 44 46 47 32 58 65 70 05A 13A 13Ab 13Ac 13Af 13Ax 13F 13F6 44L 44Lc 47D 65A 65Ac 65Ac3 65Ab 65Aba 65D 65Df 65Dt 65Fz 65N 65Np1 65Np2 65Nm 70A 70Ab Prep. no: GP748♂ GP749♂. GP2535♂. Material studied: Van Province, Tuşba, Ağartı 2030m (65Nr2) 27 6 2014 1♂ M.Kemal & A.Koçak leg.; Çatak Saklıvadi 2030m (65Df) 25 7 2016 1♂. M. Kemal & A.Koçak leg.



Figs. 80, 81 - *Pseudosyria ambustiella*. Male genitalia GP2542 (left). Upperside of male (right). Van Province, Çatak, Saklıvadi. M.Kemal (Cesa)



Figs. 82, 83 - *Pseudosyria ambustiella*, male tympanal organ, GP2542. Before preparation (left), after preparation (right), M. Kemal (Cesa)

112. *Pyla fusca* (Haworth,[1811])

Range (in code): 05 16 31 16A 31K 31Ka. Material studied: Hatay Province, Samandağ, Meydan 20m (31Ka), 13 4 2012, 1♂. M.Kemal & A.Koçak leg. New to Hatay Province!

113. *Pyralis kacheticalis* (Christoph,1893)

Range (in code): 01 05 06 07 13 21 31 33 44 56 65 01H 07B 07Bb 13F 21N 21Nb 31K 31Ka 31Ka6 33A 33Ad 44I 44Ic 56F 56F1 56Fm 56Fö 65A 65Ai 65D 65Dl 65Dlc 65Du 65Dv. Material studied: Siirt Province Şirvan Akgeçit 1210m (56F1) 3 7 2013, 1♂. Malatya Province, Kale Kumluyazı E 860m (44Ic), 19 9 2014, 3♂. İçel Province Anamur Pınarlar (33Ad) 19 8 2015 1♂. M.Kemal & A.Koçak leg. ; Hatay Province, Samandağ Meydan Fenkaltı (31Ka6), 10 10 2015 3♂. O.Sertel leg. New to İçel, Malatya and Hatay Provinces! (Koçak & Kemal, 2015b: 24, fig.13).

114. *Pyralis perversalis* (Herrich-Schäffer,[1849])

Range (in code): 13 25 42 65 76 13A 13Ab 13Ax 13F 65A 65Ac 65Ac3 65B 65Bo 65Bx 65D 65Df 65Fz 65N 65Nf 65Np2 65Nm 76C. Material studied: Van Province, Tuşba Ağartı 2030m (65Nr2) 27 6 2014 1♂ M.Kemal & A.Koçak leg.

115. *Pyrasia gutturalis* (Staudinger, 1879)

Range (in code): 01 07 13 21 31 45 46 47 56 65 07O 13F 21L 21Lc 21N 21Nb 31F 31M 46G 46Gi 56F 56Fa 65A 65An 65Am 65Am1 65Am4 65D 65Df 65Dh 65Ds 65Du 65Dv 65N 65Np6 65Nm. Material studied: Van Province, Çatak, Athhan 1300m (65Dv) 24 5 2004 1♂. M. Kemal & A. Koçak leg.

116. *Pyrausta aurata* (Scopoli, 1763) (Fig. 84)

Range (in code): 01 05 06 13 14 16 23 30 31 42 44 56 65 71 76 05A 06R 06Rd 13A 13Ab 13Ax 13C 13Cc 13Cd 13G 13Gf 13Gg 13Gw 13Gü 13F 16A 30D 30Dx 31K 31Ka 31M 44F 44Fb 44I 44Ic 56F 56Fb 65A 65Ag 65Ai 65Am 65Am2 65At 65At5 65G 65Go 65F 65Fp 65Fz 76D 76Dd. Material studied: Siirt Province, Şirvan Maden crossing 960m (56Fb) 31 5 2013 1♀. M. Kemal & A. Koçak leg.; Malatya Province, Kale Kumluyazı E 860m (44Ic), 19 9 2014, 2♂. M. Kemal & A. Koçak leg.; Van Province: Gevaş Artos Mt. 1825m (65Fp) 19 7 2008 1♂. M. Kemal & A. Koçak leg.; Bahcesaray Upper Mukus valley 1760m (65Am1), 10 5 2016, 1♂. M. Kemal & A. Koçak leg.; Altindere (65At5) 4 7 2016 1♂. M. Kemal & A. Koçak leg. Prep. no: GP2530B. New to Siirt Province!

117. *Pyrausta castalis* Treitschke, 1829

Range (in code): 05 06 13 16 25 30 37 42 44 65 69 70 71 73 76 05A 06R 13F 16A 25F 25Fa 44L 44Lc 65A 65Am 65Am4 65At 65At5 65D 65Dg 65F 65Fr 65N 65Np2 65Nm 69B 69Ba 70C 70Ce 73A 73Aç 73Aç2 73Ak 76C. Material studied: Şırnak Province, Beytüşşebap Komato 1065m (73Ak), 3 5 2013, nocturnal 1♂. M. Kemal & A. Koçak leg. New to Şırnak Province!

118. *Pyrausta delicatalis* Caradja, 1916 (Fig. 85)

Range (in code): 47 56 47D 56F 56Fc. Material studied: Siirt Province, Şirvan, Bacavan Mt. 1560m (56Fc), 29 5 2013, nocturnal 1♂. M. Kemal & A. Koçak leg. New to Siirt Province!



Figs. 84, 85 – *Pyrausta aurata*. Upperside of female (left). *Pyrausta delicatalis*. Upperside of male (right). Both from Siirt Province, Şirvan. M. Kemal (Cesa)

119. *Pyrausta despicata* (Scopoli, 1763)

Range (in code): 01 05 06 11 13 14 16 17 21 24 25 31 32 33 34 42 46 49 51 55 56 58 65 71 76 05A 06R 06Rd 13A 13Ab 13Ax 13B 13Bg 13G 13Gf 13F 13F6 13Gö 13Gğ 13Gw 16A 21L 21Lf 31M 49F 49Fb 55F 56D 56Dd 56F 56F1 58G 58Gg 65A 65Ac 65Ac3 65Ai 65As 65Am 65Am1 65Am4 65At 65At5 65D 65Df 65Dg 65Dga 65Dh 65Du 65Dw 65G 65Gn 65F 65Fb 65Fç 65Fp 65Fz 65K 65Kb 65Ké 65Kl 65Ku 65Kg 65L 65Lb 65N 65Nk 65Np 65Np7 65Np8 65Nr2 65Nm 76C. Material studied: Bitlis Province, Ahlat, Nemrut Volcano, Caldera 2360m (13Bg), 13 6 2015. 1♂. M. Kemal & A. Koçak leg.; Muş Province, Varto, Armutkaşı 1710m (49Fb) 27 5 2015 2♂. M. Kemal & A. Koçak leg.; Van Province: Çatak: Yapılı mızr. (65Fç1) 20 7 2012, 1♂. M. Kemal & A. Koçak leg.; Tuşba: Ağartı 1950m (65Np2) 19 6 2014 3♂, M. Kemal & A. Koçak leg.; Bahcesaray: Paşaköy 1600m (65Ai) 5 7 2016 7♂, Altindere 1935m (65At5) 4 7 2016 5♂. M. Kemal & A. Koçak leg. New to Muş Province!

120. *Pyrausta ferrealis* (Hampson, 1900) (Fig. 86)

Range (in code): 06 13 44 46 47 56 65 73 13F 13Fo1 13F35 13F38 13F41 44E 44Eh 44I 44Ic 44L 44Lc 47D 56F 56Fv 65D 65Dj 73A 73Ak. Material studied: Malatya Province, Darenden N, Gümüşdere 1300m (44Eh) 31 8 2013 1♂; Kale E 860m (44Ic) 19 9 2014 1♂, Beydağı NP 1195m (44Lc) 4 6 2015 1♂. Siirt Province, Şirvan, Nergisli 630m (56Fv) 18 4 2015, 1♂. Van Province, Başkale, Zıyanis 2400m (65Bo) 9 7 2015, 1♀ M. Kemal & A. Koçak leg. New to Siirt Province!



Figs. 86, 87 - *Pyrausta ferrealis*, at rest. Malatya Province, Darende, 31 8 2013 (left); *Pyrausta obfuscata* at rest. Bitlis Province, Reşadiye 1670m (13Ga), 6 7 2006 (right), M.Kemal (Cesa)

121. *Pyrausta limbopunctalis* (Herrich-Schäffer,[1849])

Range (in code): 05 06 13 16 25 30 33 38 42 46 51 58 65 69 76 05A 06R 13G 13Gd 16A 25N 25Na 30B 30Bb 30Bk 38C 38Ca 42B 51B 51Bc 65A 65Ac 65Ac3 65Ab 65Aba 65Bx 65D 65Df 65Dg 65Dga 65G 65Ge 65Gv 65Gz 65F 65Fw 65Fz 65K 65Kd 65Kg 69B 69Ba 76C Prep. no: GP781♂ GP782♀. Material studied: Bitlis Province, Tatvan, Kindras 1760m (13Gd), 31 8 2013 1♀. M. Kemal & A.Koçak leg. New to Bitlis Province!

122. *Pyrausta obfuscata* (Scopoli,1763) (Fig. 87)

Range (in code): 05 13 16 65 05A 13G 13Ga 13Gb 16A 65A 65Au 65Am 65Am2 65D 65Do 65F 65Fd. Material studied: Van Province, Bahcesaray Upper Mukus valley 1785m (65Am2), 4 7 2016, 3♂; Lower Mukus valley (65Au) 1540m, 6 7 2016, 1♂. M. Kemal & A.Koçak leg. Prep. no: GP2527♂.

123. *Pyrausta porphyralis* ([Denis & Schiffermüller],1775) (Figs. 88-90)

Range (in code): 13 13B 13Bg 13G 13Gü 13Gw. Material studied: Bitlis Province, Ahlat, Nemrut Volcano, Caldera 2275m (13Gs), 29 5 2015. 3♂ M. Kemal & A. Koçak leg. GP2167♂. New to Turkey and Bitlis Province!



Figs. – 88, 89. *Pyrausta porphyralis*. Male upperside (left), and underside (right). Bitlis Province, Tatvan, Nemrut Volcano, Caldera 2275m (13Gs), 29 5 2015. GP2167 (for the genitalia, see next page). M. Kemal (Cesa)



Fig. 90– *Pyrausta porphyralis*. Male genitalia. GP2167. M. Kemal (Cesa)

124. *Pyrausta sanguinalis* (Linnaeus, 1767)

Range (in code): 01 05 06 07 13 16 17 30 31 33 34 39 44 54 56 65 69 70 71 73 80 05A 06R 06Rb 13A 13Ab 13Ax 13F 13Fo1 13F41 16A 31K 31Ka 31M 33A 33Ac 44L 44Lc 56F 56Fo 65A 65Am 65Am1 65D 65Df 65Ds 65Fz 70C 70Ce 73E 73Eb. Material studied: Hatay Province, Samandağ Meydan Gözlüce (31Ka5) 11 5 2015, 2♂. M. Kemal & A.Koçak leg.; Bitlis Province Adilcevaz Süphan Mt Aygır 1960m (13Ab) 16 7 2015 1♂. M.Kemal & A.Koçak leg. Prep. no: GP522♂ GP2520♂

125. *Pyraustimorpha inexpectata* Koçak & Seven, 1995

Range (in code): 06 13 21 56 65 73 06K 06Kb 13F11 13F35 21N 21Nb 56F 65F 65Fd 73A 73Ak Prep. no: GP1463♂ GP2340♂ (Kemal & Koçak, 2013a)

126. *Sciota rhenella* (Zincken, 1818)

Range (in code): 08 13 42 65 71 08H 08Ha 13B 13Bg 13F 65F 65Fç 65Fz. Material studied: Bitlis Province, Ahlat, Nemrut Volcano 2450m (13Bg) 7 7 2006, 1♂. M Kemal & A.Koçak leg.

127. *Seeboldia korgosella* Ragonot, 1887

Range (in code): 65 65K 65Ky 65Ky1 Prep. no: GP2039♂. Material studied: Van Province, Ipekyolu, Baklatepe 3km NW 1830m (65Ky1) 19 4 2014 1♂. M. Kemal & A.Koçak leg. New to Van Province!

128. *Sefidia clasperella* Asselbergs, 1994

Range (in code): 13 33 42 56 65 13F 13Fo1 13F11 13F35 13F41 33B 42B 56F 56Fs 65A 65Ai. Material studied: Siirt Province, Şirvan Nallıkaya Quercetum 1840m (56Fs) 30 6 2013, 1♂. M. Kemal & A.Koçak leg.; Van Province Bahçesaray Paşaköy 1600m (65Ai), 5 7 2016 1♂. M. Kemal & A.Koçak leg. Prep. no: GP2501♂. New to Siirt Province!

129. *Selagia argyrella* ([Denis & Schiffermüller], 1775)

Range (in code): 01 05 06 12 13 16 33 58 05A 13F 13Fo1 16A 58G 58Gg 65D 65Df. Material studied: Van Province, Tuşba, Ağartı 2030m (65Nr2) 27 6 2014 1♂ M.Kemal & A.Koçak leg.; Çatak, Saklıvadi 2030m (65Df) 28 8 2016 1♂. A.Koçak leg. New to Van Province!

130. *Selagia spadicella* (Hübner, 1796) (Figs. 91-94)

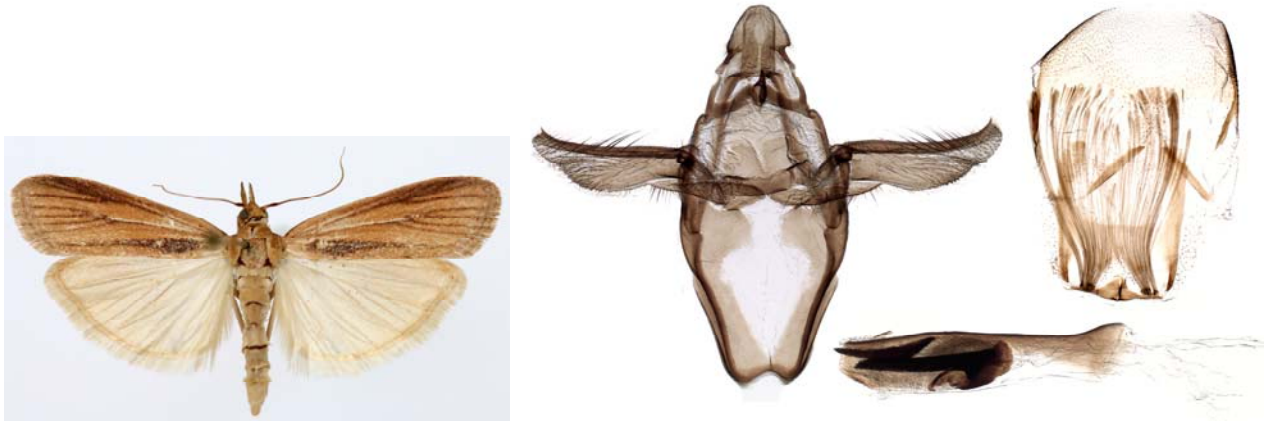
Range (in code): 06 16 42 46 65 06R 16A 65A 65Ai Prep. no: GP2566♂. Material studied: Van Province, Bahçesaray Paşaköy (65Ai) 1600m 4 8 2016 1♂; Çatak Saklıvadi 2030m (65Df) 23 8 – 1 9 2016 5♂♀. M. Kemal & A.Koçak leg.

131. *Sitochroa palealis* ([Denis & Schiffermüller], 1775)

Range (in code): 06 14 16 30 37 42 46 58 65 16A 30B 30Bc1 30Bx 46G 46Gi 65D 65Dg 65Dt 65Du 65F 65Fp 65Fz. Material Studied: Van Province: Gevaş Artos Mt. 1980m (65Fp) 15 7 2012, 1♂ (nocturnal). M. Kemal & A. Koçak leg.; Çatak: Saklıvadi 2025m (65Df) 12 7 2016, 1♂. M. Kemal & A. Koçak leg. Prep. no: GP775♂

132. *Sitochroa straminealis* (Hampson, 1900)

Range (in code): 13 42 65 73 13A 13Ab 13Ax 13F 13F6 65A 65Ai 65Am 65Am4 73A 73Ad 73Ad2 Prep. no: GP2523♂ GP2531♀. Material studied: Bitlis Province Adilcevaz, Süphan Mt. Aygır village 1960m 10 6 2015, nocturnal, 2♂. M. Kemal & A. Koçak leg.; Şırnak Province, Beytüşşebap, Öküz mağarası 1250m (73Ad2) 17 8 2013 1♂. M. Kemal & A. Koçak leg. New to Şırnak Province!



Figs. 91, 92 - *Selagia spadicella*, Male upperside (left). Male genitalia and coremata. GP2566 (right). Van Bahçesaray Paşaköy 1600m (65Ai), 4 8 2016. M. Kemal (Cesa)



Figs. 93, 94 - *Selagia spadicella*, Male tympanal organ. GP2566. Before preparation (left), after preparation (right). M. Kemal (Cesa)

133. *Sitochroa verticalis* (Linnaeus, 1758)

Range (in code): 01 05 06 08 16 21 25 27 31 32 36 42 46 56 65 71 76 05A 05E 06R 06Rb 08H 08Hc 16A 21N 21Nh 27E 36D 36Db 56F 56Fv 65A 65Ab 65Aba 65D 65Da 65Dt 65Dl 65Dlc 65F 65Fp 65Fz 76A 76Ae 76B 76Bj 76Bf 76Bh Prep. no: GP771♂ GP772♀.

***Sitochroa verticalis* ssp. *albalis* (subsp. n.) (Fig. 95)**

<http://zoobank.org/urn:lsid:zoobank.org:act:4D5F1CB4-DE61-4D73-915D-438F00550CB2>

Holotype ♂. Forewing: 14mm, wingspan: 28mm.

Upperside: Ground colour of the wings white, forewing and the body suffused with creamy. Dark bands and markings on the wings as in the nominate subspecies. Ciliae bi-coloured. On forewing towards apex more blackish in colour. Ground colour of underside white, blackish markings well-developed.

There is no significant difference between holotype and paratype. However, the colouration and the markings of two males from Kulp (Diyarbakır) are very near to the holotype but their wing size smaller (23mm), and ciliae on the forewing without black suffusion. Therefore, these two males are excluded from the type-series.

The new subspecies is apparently confined to SE Turkey (from Kulp (Diyarbakır Prov.) to Çatak, Bahçesaray (Van Province)). From the nominate subspecies (upperside yellowish), and ssp. *nigriciliialis* Ragonot (S. Turkey – from Hatay to Kahramanmaraş provinces) (wings dark yellowish-orange), it is easily distinguishable by the whitish ground colouration.

Material studied: Holotype ♂. Van Province, Bahçesaray Krapet Pass 2820m (65Aba), 6 8 2016, nocturnal, M. Kemal & A.Koçak leg., Paratype 1♂. Van Province, Çatak, Amata valley 1700m (65DI) 28 5 2005, sciophil, M. Kemal, A.Koçak & M.Doğruöz leg.

Other material of ssp. *albalis*: Diyarbakır Province, Kulp Demirli 880m, 4 6 2011, M. Aydın leg. (coll. Cesa)



Fig. 95 - *Sitochroa verticalis* ssp. *albalis* (ssp. n.) Holotype ♂. Upperside. Van Province, Bahçesaray, Krapet Pass 2820m. 6 8 2016. M. Kemal (Cesa)

134. *Spoladea recurvalis* (Fabricius, 1775)

Range (in code): 01 31 33 31A 31K 31Ka 31M 33A 33Aa 33Ac. Material studied: Hatay Province, Samandağ, Meydan Karabucak 35m (31Ka3) 8 9 2015 2♀. O.Sertel leg.; İçel Province, Anamur Taşocağı (33Ac) 19 8 2015 1♀. M.Kemal & A.Koçak leg. New to İçel Province!

135. *Stemmatophora brunnealis* (Treitschke, 1829)

Range (in code): 05 13 17 44 46 65 05A 13F 44L 44Lc 46G 46Gi 65D 65Df 65F 65F1 65Fz. Material studied: Van Province, Çatak Saklıvadi 2030m (65Df) 1 9 2016 3♂. A.Koçak leg. New to Van Province!

136. *Stemmatophora honestalis* (Treitschke, 1829) (Figs. 96-98)

Range (in code): 05 13 16 31 56 05A 13G 13Gg 13F 16A 33A 33Ac 56F 56Fb 73A 73Aç2 Prep. no: GP2328♂. Material studied: İçel Province, Anamur, Taşocağı 210m (33Ac) 19 8 2015, 1♂. M. Kemal & A. Koçak leg.; Şırnak Province, Beytüşşebap, Dule, Quercetum 1210m (73Aç2) 14 8 2013 1♂. M. Kemal & A. Koçak leg. New to İçel and Şırnak Provinces!



Fig. 96 – *Stemmatophora honestalis*. Male genitalia. GP2328. Bitlis Province, Tatvan Çağlayan. M. Kemal (Cesa)



Figs. 97, 98 – *Stemmatophora honestalis*. Male tympanal organ. GP2328. Before preparation (left), after preparation (right). M. Kemal (Cesa)

137. *Stemmatophora syriacalis* (Ragonot, 1895)

Range (in code): 01 31 33 31M 33A 33Ac. Material studied: İçel Province, Anamur, Pınarlar 475m (33Ad), 19 8 2015 4♂. M. Kemal & A. Koçak leg. New to İçel Province!

138. *Synaphe antennalis* (Fabricius, 1794) (Fig. 99)

Range (in code): 13 16 76 13F 13G 13Gs 13Gw 16A 76B 76Bl. Material studied: Iğdır Province, Güngörmez 2510m (76Bl) 17 6 2012, 1♂. M. Kemal & A. Koçak leg. New to Iğdır Province!



Fig. 99 - *Synaphe antennalis*. Upperside of male. Iğdır Province, Güngörmez 2510m (76Bl) 17 6 2012. M. Kemal (Cesa)

139. *Synaphe bombycalis* ([Denis & Schiffermüller],1775)

Range (in code): 01 04 06 13 25 27 30 31 38 44 47 50 58 65 71 76 80 13A 13Ab 13Ax 30B 30Bb 30Bk 65A 65Au 65B 65Bp 65Bx 65F 65Fp 65Fz 65K 65Ks 65N 65Np2 65Nm 76B 76Bl 76C 80B 80Bc. Material studied: Iğdır Province, Güngörmez 2510m (76Bl) 17 6 2012, 1♂. M. Kemal & A.Koçak leg.; Bitlis Province, Adilcevaz Süphan Mt. Aygır 1960m (13Ab) 10 6 2015, 1♂, diurnal, M. Kemal & A.Koçak leg.; Van Province: Gevaş Artos Mt. 1980m (65Fp) 15 7 2012, 1♂ (nocturnal). M. Kemal & A.Koçak leg.; Başkale, Çuh Pass 2890m (65Bp), 9 7 2015 [heliophil], 2♂. M. Kemal & A.Koçak leg. New to Bitlis Province!

140. *Synaphe moldavica* (Esper,[1789])

Range (in code): 05 06 07 10 16 17 22 25 31 32 34 35 38 42 45 46 48 49 58 65 70 71 05A 06R 06Rd 10K 10Ka 16A 31M 46F 46Fc 46Fg 49E 49Ea 58G 65K 65Kl 65N 65Nb 65Np 65Np1 65Np2 65Np7 65Np8 65Nr3 65Nş 65Nm 70C 70cf. Material studied: Van Province, Tuşba Ağartı 1740m (65Np) 3 6 2014 3♂ M. Kemal & A.Koçak leg.

141. *Synaphe uxorialis* (Lederer,1858)

Range (in code): 05 21 46 56 73 05A 21L 21Lf 21N 21Nb 46F 46Ff 56F 56Fb 56Fh 56Fw 56Fz 73D 73Df . (Koçak & Kemal, 2015b: 25, fig.15).

142. *Synclera traducalis* (Zeller,1852)

Range (in code): 01 31 33 46 31K 31Ka 31Ka3 31M. Material studied: Hatay Province, Samandağ Meydan Karabucak 35m (31Ka3) 8 9 2015 2♂. O.Sertel leg.

143. *Talis renetae* Ganev & Hacker,1984

Range (in code): 06 13 13A 13Ab 13Ax (Kemal & Koçak, 2013b).

144. *Tegostoma comparalis* (Hübner,1796)

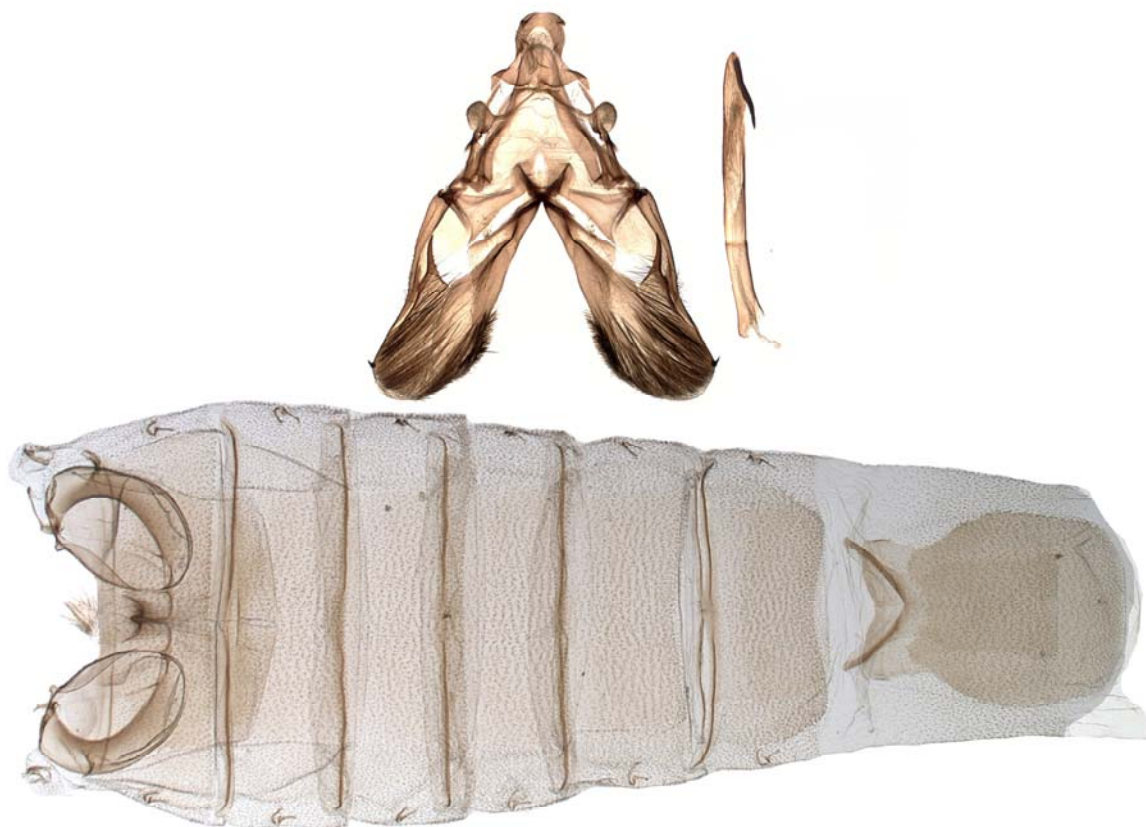
Range (in code): 16 42 44 45 46 56 58 71 76 16A 42B 44I 44Ic 56F 56Fö 76A 76B. Material studied: Siirt Province Şirvan Tomdere 640m (56Fö) 31 5 2013 1♀. M.Kemal & A.Koçak leg.; Malatya Province, Kale Kumluyazı E 860m (44Ic), 19 9 2014, 1♀. M.Kemal & A.Koçak leg. New to Siirt and Malatya Provinces!

145. *Tegostoma perlepidalis* (Guenée,1854)

Range (in code): 05 06 13 42 56 65 71 05A 06R 13A 13Ab 13Ax 13F 56F 56F6 65D 65Df 65F 65Fo 65Fp 65Fz 65K 65Kd 65Kg 65N 65Np2 65Nm. Material Studied: Van Province: Gevaş Artos Mt. 1980m (65Fp) 15 7 2012, 1♂ (nocturnal). M. Kemal & A.Koçak leg.; Tuşba Ağartı 1950m (65Np2) 27 6 2014 6♂, Ağartı 2030m (65Nr2) 1 7 2014 8♂ M.Kemal & A.Koçak leg.

146. *Teliphasa (Sultania) lophotalis* (Hampson,1900) (Figs. 100-103)

Range (in code): 07 13 30 31 33 45 46 47 56 65 73 07B 13F 30D 30Dx 31K 31Ka 33A 33Ac 56F 56Fo 65D 65Dv 65Du 73A 73Ad 73Ad2 73C 73Ce Prep. no: GP1008♂ GP2342♂ GP2343♀ Material studied: Şırnak Province, Beytüşşebap, Dule: Öküz mağarası 1250m (73Ad2) 17 8 2013 5♂♀ (nocturnal). M. Kemal & A.Koçak leg.; İçel Province, Anamur Taşocağı 210m (33Ac) 19 8 2015 1♀ M. Kemal & A. Koçak leg. New to İçel Province! (Koçak & Kemal, 2015b: 24, fig.14).



Figs. 100, 101 - *Teliphasa (Sultania) lophotalis*. Male genitalia (above). Male tympanal organ and abdominal skin (below). GP2342. Şırnak Province, Beytüşşebap, Dule 1250m. M. Kemal (Cesa)



Figs. 102, 103 - *Teliphasa (Sultania) lophotalis*. Female genitalia, with enlarged corpus bursae and signa (left). Female tympanal organ before preparation (right). GP2343. M. Kemal (Cesa)

147. *Thyridiphora furia* (Swinhoe, 1884)

Range (in code): 01 07 36 46 07B 07Bb 36D 36Db. Material studied: Antalya Province, Alanya Kargıcak 100m (07Bb), 18 8 1985, 1♂. A.Koçak leg. Prep. no: GP816♂

148. *Trepteryx pertusalis* (Geyer,[1832])

Range (in code): 01 05 06 13 21 25 31 32 33 35 46 49 56 63 65 01L 01La 05A 06K 06Kd 06N 06Nc 06R 06Rd 13F 13G 13Gw 13Gü 21N 21Nb 46F 46Fd 49E 49Ea 56F 56Fc 56Fn 56Fx 65A 65Ai 65Au 65At 65D 65Dh 65Dn 65Dv 65F 65Fb (Koçak & Kemal, 2015b: 25, fig.16).

149. *Udea ferrugalis* (Hübner,1796)

Range (in code): 01 03 05 06 07 13 14 16 17 26 31 32 33 34 35 38 42 44 46 48 49 56 58 63 65 71 75 76 80 05A 06R 06Rb 13A 13Ab 13Ax 13F 13G 13Gö 13Gg 16A 31K 31Ka 31M 44E 44L 44Lc 48L 49F 49Fb 56F 63D 65A 65Ai 65Am 65Am2 65Am4 65D 65Df 65Du 65Dv 65F 65Fd 65Fp 65Fz 65K 65Kl 65Ku 65N 65Nc 65Nc4 65Np1 65Nm 75F 75Fb 76D 76Dd 80B 80Bc. Material studied: Van Province: Gevaş Göründü N 1800m Quercetum (65Fd) 5 5 2016, 1♂. Muhabbet Kemal & A.Koçak leg.; Bahcesaray Upper Mukus valley (65Am1) 1760m 10 5 2016, 1♂; Upper Mukus valley (65Am2) 10 5 2016, 1♂; Upper Mukus valley (65Am4) 1840m 25 5 2016, 2♂ M.Kemal & A.Koçak leg. Prep. no: GP761♀

150. *Udea praepetalis* (Lederer,1869)

Range (in code): 04 05 13 25 30 42 46 51 56 58 65 69 71 76 05A 13A 13Ab 13Ax 13B 13Bd 13F 25A 30B 30Bc1 30Bx 56F 56F1 56Fn 65A 65Am 65Am1 65B 65Bo 65Bx 65D 65Df 65Dl 65Dlc 65Dx 65F 65Fr 65Fp 65Fz 65H 65K 65Kd 65Kg 65Kl 65N 65Np2 65Nr2 65Nm 69B 76C Prep. no: GP704♂ (Koçak & Kemal, 2015b: 26, fig. 17).

151. *Uresiphita gilvata* (Fabricius,1794)

Range (in code): 01 05 13 16 30 31 33 45 46 56 65 71 80 05A 13A 13Ab 13Ax 13F 16A 30D 30Dx 31K 31Ka 31M 46G 46Gf 46Gi 56F 56F1 65D 65Df 65Dv 65F 65F1 65Fz 65N 65Nc 65Nc4 (Koçak & Kemal, 2015b: 26, fig.18).

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